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FISH POPULATIONS OF CARNATION CREEK

AND OTHER BARKLEY SOUND STREAMS 1970-1980

by

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#### ABSTRACT

Andersen, B. C. 1983. Fish populations of Carnation Creek and other Barkley Sound streams 1970-1980. Can. Data Rep. Fish. Aquat. Sci. 415: v + 267 p.

A summary of fish population data, collected as part of the Carnation Creek Experimental Watershed Project, is presented. The time period covered is July 1970 to December 1980.

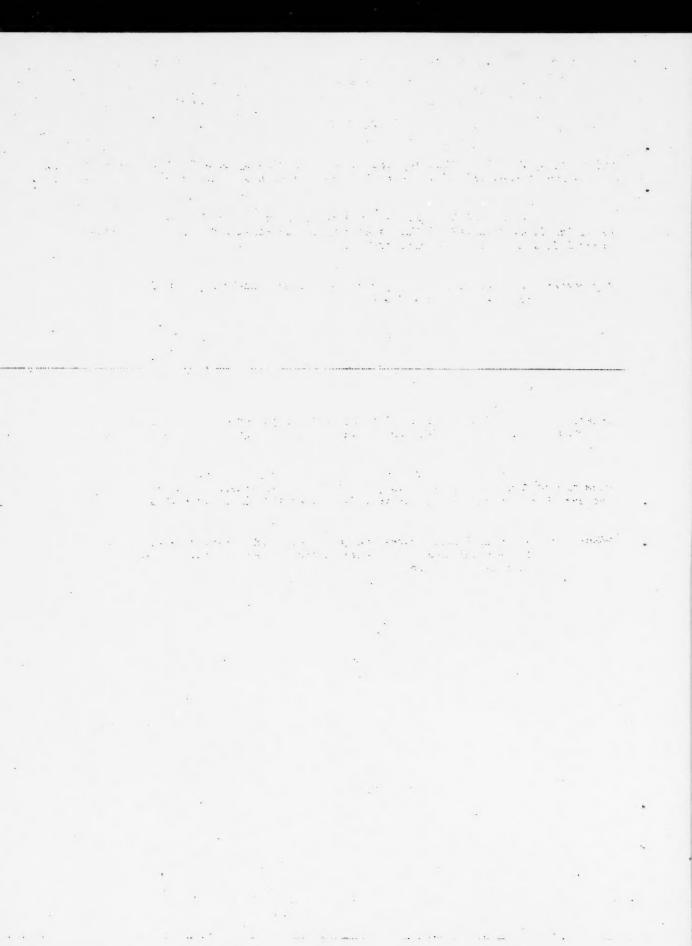
Key words: Watershed study, coho, chum, steelhead, cutthroat, sculpin, logging, Carnation Creek

#### RESUME

Andersen, B. C. 1983. Fish populations of Carnation Creek and other Barkley Sound streams 1970-1980. Can. Data Rep. Fish. Aquat. Sci. 415: v + 267 p.

On présente un résumé des données sur les populations de poisson, recueillies dans le cadre d'un projet d'étude expérimentale du bassin hydrographique du ruisseau Carnation, de juillet 1970 à décembre 1980.

Mots-clés: étude du bassin hydrographique, saumon coho, saumon kéta, truite arc-en-ciel anadrome, truite fardée, chabot, abattage du bois, ruisseau Carnation.



#### INTRODUCTION

The Carnation Creek experimental watershed is a multi-disciplinary long-term ecosystem study which has as its basic objectives:

- 1. to establish a strong understanding of processes and interactions, physical and biological, in a (typical) small watershed in a west coast rain forest area.
- to obtain information on the effects of specified logging and post-logging treatments on such a system.
- 3. to communicate information to forest and fishery managers and planners in order to improve planning of activities within watersheds.

The project, begun in 1970, was designed to compare physical and biological conditions during three phases: a 5-year pre-logging period, a 6-year logging period, and a 3-year post-logging period. The logging phase of the program was completed in June 1981 (Fig. 2) with about 41% of the watershed being clearcut over the 6-year period.

This report brings together corrects and updates most of the data on studies of fish populations for the period July 1970 to December 1980 but is basically the same as reported in Narver and Andersen 1974; Andersen and Narver 1975; Andersen 1978 and Andersen 1981; all, except Andersen 1981, are out of print.

## STUDY SITE

#### CARNATION CREEK

Carnation Creek is a small coho and chum salmon, steelhead, resident and sea-run cutthroat trout stream entering Barkley Sound on the west side of Vancouver Island (Fig. 1). A few pink salmon spawners enter the lower reaches of the stream during some years. Since 1980 occasional sockeye and chinook salmon spawners have been observed in the lower part of the stream. Two species of cottid, C. aleuticus and C. asper, are residents in the stream. In addition threespine stickleback occur in the intertidal zone and various marine fish in the lower estuary.

The watershed is about 10 km<sup>2</sup> in area containing no lakes and was entirely unlogged at the beginning of the study. It is in a region characterized by heavy rainfall (2150 to 3500 mm/yr) and an overmature conferous forest of hemlock, cedar, sitks spruce and amabilis fir. Soils are medium to coarse textured and range from gravelly loam to loamy sand with moderately thick humous horizons, slope soils are shallow in most areas of the watershed. Before logging the overmature forest stand was relatively open with substantial understory development composed mainly of tall blue huckleberry, false azalia, salal, sword fern and in the wetter areas, salmonberry, stinkcurrent, and devil's club. Vegetation along the stream

banks was dense and composed mainly of salmonberry, stinkcurrent, and large alder. The stream is accessible to anadromous fish for 3070 m and has a resident cutthroat trout population in the upper reaches. While steelhead and coho spawn well upstream, most of the chum salmon spawn in the intertidal zone. Flows at the main hydrological weir, about 400 m upstream from high tide level, have ranged from a low summer flow of .017 m/sec to a winter flood stage of 42 m/sec. Water temperature range from winter lows of near 1°C to summer highs of near 17°C.

Detailed descriptions of climate, geology, soils, vegetation, and stream morphology are given in Scrivener 1975, and Oswald 1973, 1974, 1975.

"C" tributary, the internal control stream, drains an area of 155 hectares and is 2.0 km long, draining northwest and joining Carnation Creek approximately 2100 m upstream of the mouth (Fig. 2). It is a high gradient stream in a catchment basin that is unlogged except for 20 hectares of blowdown that was logged in 1972. The substrate is rubble to large boulders with very limited spawning gravel. The study section, located .2 km from the mouth, contains cutthroat trout only. Lowest summer flow was 1.6 L/sec. This stream has had a weir on it since 1972 with flow and temperature being monitored continuously since that time.

1600 tributary drains an area of 22 hectares and is .4 km long. It flows in a westerly direction and joins Carnation Creek approximately 1600 m upstream from mouth (Fig. 2). It has a low gradient in the first 300 m consisting of pools with silt and organic bottoms and short riffles of small gravel. The study section, located 20 m from the mouth, contains coho, rainbow trout, cutthroat trout and C. aleuticus. Summer flow is subgravel at mouth. Stream temperature has been monitored continuously since 1972. This stream was studied more in detail in 1972-73 and 1980-81 (Bustard and Narver 1975; Tschaplinski and Hartman 1982).

# Other Streams

For control and comparison purposes, the fish populations in other streams in the southern Barkley Sound area are being monitored in late summer.

North Pachena River flows from Pachena Lake southwesterly for 3.4 km where it joins the main Pachena River 7.4 km above Pachena Bay (Fig. 1). It has a very low gradient with heavy accumulations of logging debris and sparse streamside vegetation. The substrate is silt and small gravel with some rubble. The streamside was logged and burned in 1951-55. The study section, located 2.4 km below Pachena Lake, contains coho, rainbow trout, C. asper, C. aleuticus and crayfish. Low summer flow is < 25 L/sec. Winter freshets do not appear to be severe. This stream was monitored in 1971 only.

Pachena (South Pachena) is about 4.8 km long flowing northwesterly and joining the main Pachena River 4.0 km above Pachena Bay (Fig. 1). It is a low gradient stream with dense stands of red alder on the streambanks. The substrate is variable in size with many sections of good spawning gravel. The 2 km above the Bamfield road, which includes the study section, was logged and partially burned in 1956-60. The study section, located .4 km above the junction

with the main Pachena River, contains coho, rainbow trout, a few cutthroat trout, C. asper, C. aleuticus and crayfish. Low summer flow is < 25 L/sec, stream temperatures of 16 C on the afternoon of August 23, 1972 and 13.2 C on the afternoon of August 29, 1973 were observed. The stream channel shows evidence of substantial winter freshets.

Frederick Creek flows from Frederick Lake northeasterly for 6.4 km where it joins the Sarita River about .8 km from Sarita Bay (Fig. 1). The lower 4 km of the stream is low gradient with heavy growths of red alder. The substrate is small with silt accumulations in the pools. The streamside was logged (and burned?) in the early 1950's. The study section, located .1 km above the mouth, is at the upper tide level and contains coho, rainbow trout, cutthroat trout, C. asper, C. aleuticus, stickleback and lamprey ammocytes. Low summer flow is < 50 L/sec. Mean stream temperature was 13.5 C in August 1971. Temperatures of 14.5 C on the afternoon of August 22, 1972 and 10.5 C on the morning of August 31, 1973 were recorded. This stream was abandoned as a study site in 1980 due to beavers taking over the stream.

Ritherdon Creek is about 9.7 km long flowing westerly into the eastern end of San Mateo Bay (Fig. 1). The lower and upper sections have high gradients and the middle section has a relatively low gradient.

Streamside logging started in 1969 and is continuing at the present time, most logged areas have been burned to the stream edge. The logged portion of the stream has a very heavy debris accumulation. The substrate is large except for low gradient areas where it varies from silt to rubble. The study section, located 3.5 km above the mouth, is apparently inaccessible to anadromous fish and contains only cutthroat trout. Low summer flow is < 25 L/sec. In the study section the mean stream temperature in August 1973 was 15.1°C with a maximum of 19°C on July 17. In the study section streamside vegetation was sparse and logging debris is abundant. This section of the watershed was classed nonfish and was consequently logged and burned without concern for other values. In the years since the study began the study has developed a very dense stand of red alder.

<u>Useless Creek</u> is about 2.8 km long, draining southeasterly into Useless Inlet at the northeast end of Barkley Sound (Fig. 1). It is a high gradient stream, in an unlogged forest, with dense streamside vegetation. The substrate is large with few good spawning areas. The study section, located .1 km from the mouth, contains coho, cutthroat trout, <u>C. aleuticus</u> and <u>C. asper.</u> Low summer flow is < 10 L/sec. Mean stream temperature was 9.5 C in August 1973 with a maximum of 10.4 C on July 18. This stream has remained unlogged, although a road was built across the upper watershed in 1980.

#### METHODS

## ADULT SALMONIDS

A permanent fish enumeration fence was constructed in the spring of 1972 near the upper tide limit on Carnation Creek (Lill and Sookachoff 1974). The fence is 18.29 m long with a 30° upstream face of 6.3 mm aluminum bar on edge with 19.0 mm spacing and a 3.66 m wide deck on the downstream side made

of 25.4 × 101.6 mm lumber on edge with 38.1 mm spacing. A 1.22 m wide by 2.44 m long by 2.13 m deep trap made of pickets with 19.0 mm spacing is located on the upstream side of the south end of the fence. The fence is capable of trapping all upstream migrating adult salmonids at all flows experienced to date. All adult salmon, cutthroat and steelhead were dipped from the trap individually; length (tip of snout to fork of tail), and sex recorded; and scales taken from coho, cutthroat and steelhead. All scale sampling was done between the anterior edge of the anal fin and posterior edge of the dorsal fin within three scale rows of the lateral line. Scales were placed in envelopes and later cleaned, placed on gummed cards and impressed in plastic. Most steelhead were tagged with numbered Petersen disks.

In 1971 a temporary upstream-downstream fish trapping fence was built about 100 m upstream from the present site. This facility fished only below 150-200 cfs depending on the debris conditions, so it was used mainly to sample the run. However, population estimates were made for chum and coho, above the fence, prior to November 16, 1971. A tagging and recovery system was used and estimates were derived using the following formula:

$$N = \frac{M(C+1)}{R+1}$$

In 1972, 17.3% of the large coho (.1+) and 3.9% of the jack coho (.+) entered after November 16, and these ratios were used to estimate the 1971 run.

Chum salmon escapement estimates were made by visual counts at low water in the intertidal area in all years and for the entire stream in 1970 and 1971. In 1970 length measurements of dead chum were made. These fish were measured from the posterior edge of the eye to the hypural plate. These were later transformed to fork length using a regression of hypural length on fork length for 30 males and 87 femsles from the 1973 Carnation Creek population:

Y = -6.4699 + 1.422 X (male chum salmon)

Y = 3.3851 + 1.210 X (female chum salmon)

Where:

Y = tip of snout - fork of tail

X = posterior edge eye - hypural plate

Fork length data were obtained from chum salmon taken in the fence trap and from occasional beach seine catches in the stream. In 1973-1980 chum salmon were aged from otoliths.

## Downstream Migrants

The permanent fish enumerating fence constructed in March 1972 facilitated reliable estimates of downstream migrants. The fence was built so that 5 large fan traps could be easily installed in alternate bays 2, 4, 6, 8, and 10 with the remaining bays screened with "V" shpaed flow dividers extending 2.29 m in front of the untrapped bays. The fan traps are 1.68 m wide at the mouth reducing to .38 m with a triple channelled bottom. A screened live box .91 m long x .46 m wide x .61 m deep was attached to the small end of the fan trap. The entire downstream trapping system was designed to spill as much water as possible before reaching the live boxes. This system is able to screen the entire flow up to about 5.7 m /sec if there are not heavy loads of leaves and debris. At flows over 5.7 m3/sec when the operators could not keep shead of the fine debris accumulations on the screens. all but one trap was submerged. The one remaining trap was fished as an index although it appears that relatively few fish move on the peak discharges. To obtain an estimate during extreme freshets, when traps were inoperable, catches on the preceding and following day were considered.

In 1971 the outmigration was estimated at a temporary fence by means of three inclined plane traps. The entire stream was trapped until the flow reached about 2.8 m<sup>3</sup>/sec, again depending on density of febris.

The downstream traps were serviced each morning just after the peak movement. All trapped fish were anesthetized in a 1:40,000 solution of 2-phenoxyethenol for examination. In all years all the sculpins were identified and measured. Most of the coho smolts and all trout were measured every day. In 1971 scales were taken from nearly every smolt that was measured. Since 1972 scales were taken from the first 50 coho smolts caught in each 7-10 day interval of the migration period. Scales were taken from all trout. Some condition measurements were made on smolts captured in the downstream traps. These smolts were held for 24 hours before weighing because they often feed on chum or coho fry in the live boxes. All chum and coho fry were counted and a sample measured every 7-10 days. Scales were wet-mounted between slides and later examined to determine age of the smolts.

#### Stream Resident Fishes

Sampling was done by electrofishing and pole seining. In 1970 and 1971 the mark and recapture method of population estimates was used (Shetter 1957). Since May 1972 the removal method has been used for estimating population parameters (Seber and LcCren 1967). For small streams and catches large relative to the total population, the removal method has proven far more satisfactory than mark and recapture for sculpins as well as juvenile salmonids.

Short study sections, from 33 to 170 m in length were established along the stream at 240 (II), 630 (III), 1160 (IV), 1610 (V), 1890 (VI) and

2310 (VIII) m and below the upper weir (IX) (Fig. 2). From 12 to 25% of the 3070 m utilized by anadromous fish were sampled each period. The upper and lower ends of each study section were usually blocked off by nets. Sometimes this was considered not necessary because of very low water and shallow, wide riffles. The wetted area of riffles and pools in each section were measured on nearly every sampling period. Estimates were made for the population parameters of each section. Two methods were considered in making estimates for the entire 3070 m length of stream utilized by anadromous fishes. First, estimates were made for the population parameters of each section and extrapolated to the adjacent, unsampled stream - the sum of these extrapolations being the population estimate. However, occasionally the population estimate in a particular section was unreliable, i.e. R < 20% in the case of mark and recapture or p < 50% in the case of the removal method. Because of these occasional aberrant estimates it was considered better to pool the population parameters for all sections, making one population estimate, and extrapolating that to the unsampled portion of the stream for a total population estimate per Elson (1962).

In 1971 when mark and recovery methods of population estimating were used, the estimates for sculpins in the lower stream were extremely high. Recovery of marked fish was extremely low. Our observations suggest that the marked fish, after being shocked and anesthetized, and having part of a dorsal fin removed, were not as available to recapture as were unmarked fish. Because of this little confidence can be placed in the 1971 sculpin estimates.

Each catch was anethetized, counted, measured and sampled for scales. A sample of each species was weighed in at least 2 study sections in the mainstem of Carnation Creek and at all other study sites.

Another measure of condition, total lipids analysis, was done from 1973-1977. Each fish, in samples of 20-30, was anesthetized, measured, weighed and frozen individually in freezer bags. Analysis was done according to the Folch, Jorki, Lees and Sloane Stanley (1957) method.

#### RESULTS

#### ADULT STUDIES

# Coho

The following table shows a marked increase in the return of jack coho in 1978-80, of large males in 1979 and 1980, and of females in 1979. This was probably a reflection of a large increase in coho smolt output in 1978-80.

	Jack	(.+)	Large mal	e (.1+)	Fem		
		Mean		Mean fork		Mean	
Year	Return	length (cm)	Return	length (cm)	Return	length (cm)	Total large
1971 <sup>a</sup>	62	35.0	108	55.7	81	61.0	189
1972	76	33.0	87	65.2	75	68.6	162
1973	43	33.8	85	62.8	71	66.8	164b
1974	75	35.6	88	58.1	70	66.9	159 <sup>c</sup>
1975	54	33.4	89	65.4	69	65.9	158
1976	35	30.1	68	56.1	55	63.5	123
1977	53	34.7	76	57.3	51	65.2	127
1978	233	33.5	46	60.7	- 56	65.3	102
1979	114	33.2	136	58.2	176	64.0	312
1980	101	34.8	110	57.0	65	66.8	175 <sup>d</sup>
Mean	84.6		89.3		76.9	-	167.1

a The 1971 run was estimated using mark and recovery.

The age compositions of adult coho are presented in Tables 1 to 3.

The length distributions and mean lengths for adult coho by age and sex are given in Tables 7 to 9.

Time of entry into the stream is strongly dependent on stream discharge levels and consequently is variable between years (Tables 4 to 6). In all years at least 85% of the run had entered by mid-November.

bEight not sexed but included in total.

CIncludes 1 large unsampled coho.

dPlus 5-10% for uncounted large coho.

Chum

The estimates of chum salmon spawning escapement (above and below fence) in Carnation Creek were:

Year	Escapement	Sex ratio d:9
1970	1200	1.4:1
1971	1000	.96:1
1972	1700	1.6:1
1973	4168	1.4:1
1974	3060	1.1:1
1975 <sup>a</sup>	1200	
1976	1500	1.2:1
1977	1700	
1978	3300	1.1:1
1979	450	
1980	3000	

<sup>&</sup>lt;sup>a</sup>The 1975 estimate was very rough due to high stream discharge levels.

Weekly counts of chum salmon, by sex, passing Carnation Creek fence are presented in Tables 10 to 12.

Length distributions, by sex, are given in Table I3 and 14. The average of yearly mean fork lengths for 1970-1980 chum were 72.9 cm for males and 70.5 cm for females.

The dominant age group of chum adults is three winters in the ocean as determined by otoliths (Table 15).

#### Pink

In early September 1980 approximately 40 pink salmon spawned above and below the counting fence. This was unusual. In previous years a maximum of 2 pair had been observed and only below the fence. In most years no pinks were observed.

### Steelhead and Cutthroat

Adult steelhead and cutthroat sampling at the counting fence is summarized in Tables 16 and 17. The number of fish sampled is not an indication of the total return of either steelhead or cutthroat because the fence was not operated during the winter of 1978-79 and 1979-80. Also when the fence is fishing for juveniles from mid-March to August high stream discharge can flood out the fence and allow adult fish to pass upstream or downstream unobserved.

#### JUVENILE STUDIES

### Downstream Migrants

Outmigrations of juvenile salmonids in relation to date, water temperature and discharge are presented in Fig. 3 to 12. Total counts are summarized in Table 18.

## Coho

		·. ·	1+ >	50 mm	. •	11+			
Year	Fry	I+ <60 mm	Run	Mean length (mm)	Run	Mean length (mm)	Total fish >60 mm	% II+ fish >60 mm	50% point of smolt run
1971 <sup>a</sup>	122774	62	1000	76.6	1415	98.3	2415	59	May 14
1972	25664	40	1305	83.3	574	108.0	1879	30	May 4
1973	19183	141	974	77.4	776	101.9	1750	44	May 8
1974	21600	184	1030	74.2	1444	99.2	2474	58	May 9
1975	31364	128	1119	75.2	874	94.6	1993	. 44	May 9
1976	24714	206	1788	72.0	1068	92.8	2856	.37	May 10
1977	7877	103	1522	78.1	935	97.5	2457	38	May 4
1978	13972	27	3841	83.6	778	100.0	4619	17	May 2
1979	5285	19	2843	80.6	668	96.3	3511	19	Apr 30
1980	27654	21	3555	85.4	991	104.6	4546	22	Apr 30

a Temporary fence, run numbers are very rough.

The preceding table shows a very large increase in numbers of age I+ smolts in 1978, 1979 and 1980.

Coho smolts migrated primarily in late April and early May with major peaks corresponding to rising stream discharge. The 50% point of the coho smolt run shows a trend of occurring at an earlier date in 1978-80 (Table 19). The timing of the two age groups are different with the age II fish tending to predominate in the middle of the run (Fig. 13).

The weekly mean lengths of smolts are in Fig. 14-17 and appendix.

There is a trend to larger age I+ coho smolts in the last three years (1978-80).

The 50% point of the coho fry shows a trend toward being much earlier in 1977-1980 than in previous years (Table 19). Mean lengths of coho fry in the downstream run are summarized in Table 20. A paper examining the coho fry runs in detail has been published (Hartman et al. 1982).

# Chum Salmon

The mean number of chum fry in the yearly outmigrations from above the fence for the years 1972 to 1980 is 47,360. Mean lengths of chum fry

in the downstream runs are summarized in Table 21. Virtually all chum fry movement is at night. Timing is variable, the time by which 75% of the run had passed the traps was from 2300 to 0230 hr in four nights of continual trapping (Fig. 18).

# Steelhead and Cutthroat

A summary of juvenile steelhead and cutthroat trout outmigration data 1971-1980:

			teelhead		C	utthroa	<u>.</u>
	<100 mm		≥100 mm	1	<100 mm	≥1	00 mm
Year	Run	Run	Mean length	50% point of run	Run	Run	Mean length
1971 <sup>a</sup>	308	167	143.3	May 20	10	19	133.7
1972	39	59	153.2	Jun 9	-	4 .	155.8
1973	113	93	134.6	May 23	8	24	135.0
1974	179	78	144.5	May 22	7	48	144.9
1975	128	68	143.8	May 27	34	58	137.5
1976	301	113	133.9	May 24	16	.78	129.3
1977	176	106	131.1	May 9	24	93	128.6
1978	7	103	139.0	May 10	7	60	122.6
1979	. 1	. 20	140.1	May 6	3	25	125.2
1980	10	51	161.9	May 9	6	60	141.7

Temporary fence, run numbers very rough.

The 50% points of steelhead smolt outmigration shows a trend, starting in 1977, of being much earlier than in previous years. The numbers of both steelhead and cutthroat under 100 mm show a marked decline in the last 3 years, while numbers of fish 100 mm and over have also had a marked but somewhat lesser, decline. Mean length of 1980 100 mm and over steelhead shows a very large increase over previous years.

The age compositions and mean lengths of juvenile steelhead and cutthroat in the downstream migrations are presented in Tables 22 and 23.

## Resident Fish

The basic data on density, biomass and growth are in the appendixes.

The late summer population estimates for the lowest 3070 m of Carnation Greek are given in Table 24.

A summary of late summer population estimates for lower Carnation Creek by species, year and age:

	Coh	0		Rain	bow			Cutt	hrost			
Year	0	I	0	I	11	III	0	I	II	III	C. aleuticus	5
1970	14129	790	1685	694	392							
1971	11842	1286	3451	501	119	128						
1972	9252	702	1597	386	58						2292	
1973	9071	1229	5117	229	101	9		*			4539	
1974	12584	1114	3545	456	~76	10				٠ .	4058	
1975	11482	1333	2892	376	~85			· .		*	2488	
1976	12327	1232	2939	355	~80						1642	
1977	10602	1236	344	232	258						1617	
1978	10928	1089	136	94	. 68	9	944	136	~85	34	3411	
1979	13230	1546	-	39			388	86	8		1845	
1980	20953	2142	269	16	24		212	163	57	~24	1832	

The 1980 estimates of both age 0 and Age I are much higher. A trend of a marked decrease in numbers of rainbow, started in 1977, continues. Cutthroat, which were so few in number prior to 1978 that population estimates were not made, have increased in numbers to a point where estimates are now possible.

A summary of the late summer fish densities by study section in Carnation Creek is given in Table 25. The following summary of late summer Carnation resident coho density (fish/m) by study section and year shows some interesting trends in relation to progress of clearcut logging in the watershed, but should be used with caution since the densities do not take into account differences in stream discharges at time of sampling or yearly variations in low summer flow.

	*.		3		**	+	Year					
Age	Section	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
0	II	.89	1.14	.60	.61	.66	.61	.72	.24	.45	.72	.70
	III .	1.18	. 82	.59	.52	.75	.38	.58	.30	.35	.60	.98
	IV		.44	1.01		1.27	.98	.92	.44	. 74	1.14	1.97
	V		٠		44-	-1.00	.86	. 88	1.18	.66	.29-	1.24
	VI	1.73	.96	1.01	.93	1.30	1.00	.69	.78	.60	.51	1.15
	VIII	.98	.99	.86	-	.68	.68	.47	.30	.27	.94	1.58
+ +	Combineda	1.15	.88	.80	.73	.92	.75	.69	.53	.50		1.26
I	II	.06	.16	.05	.12	.10	.13	.09	.10	.02	.10	.12
	III	.06	.11	.09	.10	.06	.05	.08	.06	.04	.12	.19
	IV		.05	.06	.11	.13	.09	.08	.09	.05	.11	. 19
	A				.05	.08	.05	.07	.06	.10	.10	.10
	VI	.08	.05	.03	.17	.08	.13	.07	.04	.10	.07	.11
	VIII	.02	.05	.09	.04	.02	.03	.04	.03	.02	.04	.13
-	Combined	.06	.10	.06	.10	.08	.09	.07	.06	.05	.09	. 13

<sup>a</sup>Not a mean but derived from areas and catches in all sections combined for population estimate.

Preliminary analysis relating densities in sections V, VI and VIII (Fig. 2) to unlogged or leave strip sections (II, III, IV) shows an increase in densities of age 0 coho in the summer immediately following intense logging treatment and then a decrease in densities in subsequent years.

Tables 26, 27, and 28 summarize fish density, biomass, and mean lengths for all years and all streams studied.

In the Ritherdon Creek study area both fish densities and biomass have shown a substantial decrease since 1976. Age O coho in South Pachena increased in density in 1979 and 1980.

The length weight and condition factor (K) data, cottids and juvenile salmonids, are summarized in Appendix XV.

Lipid content of juvenile salmonids in Carnation Creek is summarized in Table 29.

#### ACKNOWLEDGMENTS

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Table 1. Age composition of adult coho salmon in Carnation Creek 1971-1974.

				Tot	al age			Fr	eshw	ater		Oce	an
		1.+	2.+	Total	1.1+	2.1+	Total	1.	2.	Total	.+	.1+	Total
						19	71			. 4 . 4			
o n		7 54	6 46	13	5 33	10 67	15	12 43	16 57	28	16 47	18 53	34
9 n %		0	0	. 0	37	5 63	8	37	5 63	8	0	10 100	10
Total	n %	7 54	6 46	13	8 35	15 65	23	15 42	21 58	36	16 36	28 64	44
* .				-		19	72						
o n		33 65	18 35	51	41 70	18 30	59	74 67	36 33	110	76 47	87 53	163
9 n %		0	0	0	30 53	27 47	57	30 53	27 47	57	0	75 100	75
Total	n %	33 65	18 35	51	71 61	45 39	116	104 62	63 38	167	76 32	162 68	238
						19	73						
o n		18 49	19 51	37	45 74	16 26	61	63 64	35 36	98	40	83 68	123
9 n		0	0	0	40 83	8 <sup>-</sup>	48	40 83	8 17	48	0	70 100	70
Total	n %		19 51	37	85 78	24 22	109	103 71	43 29	146	40 21	153 79	193
		*	ŧ			19	74						
of n		18 31	40	58	46 68	22 32	68	64 51	62 49	126	71 46	82 54	153
9 n 7.		0	0	0	20 40	30 60	50	20	30 60	50	0	66 100	66
Total	n %	-	40 69	58	66 56	52 44	118	84 48	92 52	176	71 32	148 68	219

Table 2 Age composition of adult coho salmon in Carnation Creek 1975, 1976 and 1977.

				1	otal age	9	w. · · · ·		1,23	Frest	nwater		•	Ocean	
		1.+	2.+	Total	1.1+	2.1+	3.1+	Total	1.	2.	3.	Total	.+	, 1+	Total
1975														1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ਰ	n %	19 52.8	17 47.2	36	29 51.8		0	56	47 52.8	42 47.2	0	89	51 36.7	88 63.3	139
\$	n %	. 0	0	0	21 38.9	33 61.1	0	54	21 38.9	33 61.1	0	54	0	66	66
Total	n %		17 47.2	36	50 45.5	60 54.5	0	110	68 47.6	75 52.4	0	143 24.9	51 75.1	154	205
1976				. 1 1 12					: :			THE STATE OF THE S			
-	n %	10 31.2	22 68.8	32	33 61.1	20 37.0		54	44 51.8	40 47.0	1.2	85	32 32.7	66 67.3	98
	n %	- 2 0	0	0	19 39.6	29 60.4	0	48	19 39.6	29 60.4	0	48	0	53 100.0	53
Total	n	10	22	. 32	. 52	49	1	102	63	69	1	133	32	119	151
	%	31.2	68.8		48.0	51.0	1.0		47,3	51.9	0.8		21.2	78.8	
1977	7.	•													,
ď		12 24.0	38 76.0	50	40 56.3	31 43.7	0	71	52 44.4	65 55.6	0	117	54 42.5	73 57.5	127
9	n %	0	0	0	23 48.9	23 48.9	1 2.2	47	23 48.9	23 48.9	1 2.2	47	0	49 100.0	49
Total	n %	12 24.0	38 76.0	50	63 53.4	54 45.8	0.8	118	75 45.7	88 53.7	0.6	164	54	122 69.3	176

Table 3. Age composition of adult coho salmon run in Carnation Creek 1978, 1979, 1980.

		**			Total a	ge			P	reshwa	ter			Ocean	
		1.+	2.+	Total	1.1+	2.1+	3.1+	Total	1.	2.	3.	Total	.+:	.1+	Total
1978														` ;	
	n %	173 79.7	44 20.3		31 66.0	16 34.0	0	47	204 77.3			264		47 16.8	
\$	n %	0	0	0	32 61.5	20: 38.5	0	52	32 61.5	20 38.5	0	52	0.0	56 100.0	56
		173 79.7		217		36 36.4	0	99	236 74.7			316	233 69.3	103 30.7	336
1979		, .	,,		1						. ,			**	
ď	n %	81 74.3	28 25.7		111 91.7	10 8.3	0	121	192 83.5	38 16.5			114 45.6	136 54.4	250
	n %	0	0	0	141 83.9	27 16.1	0	168	141 83.9	27 16.1	0	168	0	176 100.0	
Tota1	n %		28 25.7	109	252 87.2	37 12.8	0	289	333 83.7	65 16.3		398	114 26.8	312 73.2	426
1980			-											*	
ਰ	n %	68 69.4	30 30.6		82 82.8	17 17.2	0	99	150 76.1	1	0	197	101 47.9	110 52.1	
ę	n %	0	0.	0		7 11.3	0.	62	55 88.7	7	0	62	0	65 100	65
Total	n %	68 69.4	30 30.6	98	137 85.1		0	161	205 79.2	54 20.8	0		101 36.6	175 63.4	276

NOTE: Number of adult coho aged can be less than total run due to unreadable scales or no scale being taken.

Table 4. Weekly fence count of coho salmon into Carnation Creek by ocean age and sex 1972-1974.

		19	72	£				19	73					19	74	1.5	
490	1:				Cotal		. *			To	tal					T	otal
Week	ç n	o'(,1+) n	Jack n	n	Accum.	Week	o n	o'(.1+)	Jack n	n	Accum.	Week	o n	o(.1+) n	Jack n	n	Accum.
Sep 17-23	0	4	31	35	14.7	Sep		:				Sep					
24-30	0	0	. 0	0	• "	23-29	. 0	0	1	1	0.5	12		•••	1	1	.4
Oct				. *		Oct						Oct				.*	
1-7	0	0	0	0		S 30-6	0	0	1	1	1.0	2-5	3	10	33	46	20.1
8-14	0	0	.0	. 0	2 4 1	7-13	4	15	16	35 87	17.9	6-12	16	20	19	55	43.6
15-21	0	. 0	. 0	. 0		14-20	32	36	18	87	59.9	13-19	1	1	4	6	46.2
22-28	0	0.	0	0		21-27	10	9	2	21	70.0	20-26	0	0	0	0	3
29-N4	35	38	34	107	59.7	28-N3	. 6	12	2	20	79.7	27-N2	0	.0	0	. 0	
Nov.			2			Nov						Nov			100		4 . 7
5-11	26	27	8	61	85.3	4-10	0	1	0	1	80.2	3-9	37	42	6 -	85	82.5
12-18	2	1	0	3	86.6	11-17	8	6	1	16ª	87.9	10-16	3	2	6 .	11	87.2
19-25	1	0	0	1	87.0	18-24	. 2	1	. 0	3	89.4	17-23	5	7	1	13	92.8
26-D2	5	8	3	16	93.7	25-D1	0	0	0	16 <sup>a</sup> 3 3 <sup>a</sup>	90.8	24-30	.0	1	. 1	3ª	94.1
Dec						Dec						Dec					
3-9	0	1	0	1	94.1	2-8	7	5	2	17ª	99.0	1-7	. 9	Δ.	Δ.	11	98.8
10-16	. 0	ō	o	ō ·		9-15	2	ő	0	2	100	8-14	1	. 1	0	2	99.7
17-23	6	8	0	14	100				Ÿ.	-	200	15-21	i	ō	0	1 :	100
Total	75	87	76	238		,h.*	71	85	43	207 <sup>a</sup>	3 ** •		70	88	75	234ª	

a Includes large coho that escaped upstream.

Table 5. Weekly fence count of coho salmon into Carnation Creek by ocean age and sex in 1975, 1976, and 1977.

		19	75					197	76					1977			
			,	To	tal			. •		1	otal					To	tal
Week	ę n	o(.1+) n	Jack n	n	Accum.	Week	o n	o'(.1+) n	Jack n	n	Accum.	Week	Q n	o(.1+) n		n	Accum.
Sept.	0	1	2	3	1.4	Sept.	0	0	1	1	.6	Sept. 21 & 22	2	. 8	2	12	6.7
						Sept.	0	0	1	1	1.3		•			.: •	
0ct. 5-11 12-18 19-25	17 20 2	7 25 16	29 16 3	53 61 21	26.4 55.2 65.1	0ct. 3-9 10-16 17-23	0 7 1	0 11 1	0 19 1	0 37 3	24.7 26.6	Oct. 2-8 9-15 16-22	0 1 0	0 1 0	5	0 7 0	10.6
26-N1 Nov.	6	26	0	32	80.2	24-30 Oct.	21	26	8	55	61.4	23-29 Oct.	33	45	26	104	68.3
2-8 9-15 16-22 23-29	16 2	11 0	2 0 1	29 2 3	93.9 94.8 96.2	31-N6 N7-13 N14-20	9 0 11 4	8 1 12	3 0 1	20 1 24	74.1 74.7 89.9	30-N5 N6-12 N13-19	2 2	. 6	8 2 6	10 12	80.0 85.6 92.2
30-D6 Dec.	0	0	0	0	98.6	N21-27 N28-D4 Dec.	0	5	0	0	96.2	N20-26 N27-D3 Dec.	0	1	i	3	93.3 95.0
7-13	1	0	0	1	99.1	5-11 12-18	1	3	0	4 2	98.7 100.0	4-10 11-17	0	0 2	0	0	99.4
Jan. 6/76	i	1.	0	2.	100.0						valley me	Feb. 12/78	0	1	0	1	100.0
Total n	69	89	54	212			55	68	35	158			51	76	53	180	
Sex ra	tio		o 1.29	Q 1				large	1.24	9	distribution of the second	٠		large	đ 1.49	9	

Table 6. Weekly fence count of coho salmon into Carnation Creek by ocean age and sex in 1978, 1979, 1980.

		197	78					197	9			•		198	30		
				T	otal					1	otal		:			1	otal
Week	ņ	o'(.1+) n	Jack n	n	Accum.	Week	ç n	o'(.1+)	Jack n	n	Accum.	Week	ę n	o'(.1+) n	Jack n	n	Accum.
Aug 22	0	0	2	2	.6								•	V			
Sep			•		4	Sep				٠٠,		Sep	٠.				
3-4	0	0	4	4	1.8	4-8	14	21	. 25	60	14.1	2	0	3	4	7	2.5
10-16	3	0	48	51		9-15	7	8	15	30	21.1	7-13	o	0 .	6	6	4.7
17-23	2	0	17	19	22.7	16-22	0	0	. 0	0	21.1	14-20	. 0	4	. 13	17	10.9
24-30	1	2	26	29	31.3	23-29	9	3	20	32	28.6	21-27	0.	. 2	18	20	18.1
Oct						Oct						Oct	٠.				
1-7	0	. 1	12	13	35.2	S30-6	4	2	12	18	32.9	\$28-04	6	30	37	73	44.6
8-14	1	. 1	27	29	43.9	7-13	. 0	0 .	0	0	32.9	5-11	2.	1	1	4	46.0
15-21	. 0	0	1	1	44.2	14-20	.1.	1	4	: 6	34.3	12-18	. 0	0	1.	1	46.4
22-28	11	6.	22	39		21-27	116	85	36	237	89.9	19-25	1	5	1.	7	48.9
29-N4	5	0	7	12		28-N3	6	6.	0	12	92.7	26-N1	13	20	4	37	62.3
Nov		•				Nov		i				Nov					
5-11	24	31	61	116	94.0	4-10	. 0	0	0	0	92.7	2-8	38	43	15	96	97.1
12-18	1	1	2	4	95.2	11-17	2	2	2	6	94.1	9-15	1	Ö	0	1	97.5
19-25	0	0	0	0	95.2	18-24	7	. 5	0.	12	96.9	16-22	4	2	1	. 7	100.0
26-D2	2	3	1.	6	97.0	25-D1	6	1	0	7	98.6	23-29	0	0	0	0	
Dec				,		Dec						Dec					
3-9	2	1	1	4	98.2	2-8	3	1	0	4	99.5	N30-6	0	0	0	0	
10-16	4	0	2	6	100.0	9-15	1	1	0	2	100.0	7-13	0	0	0	0	
Total n	56	46	233	335			176	136	114	426			65	110	101	276	3 3
Sex rat	io 1	arge of	: º : 1					large	♂:♀ 77:1				:		o : 9 69 : 1		· · ·

NOTE: During a period of high tide and high stream flow on November 1, 1980, several large coho were observed to escape over the fence, considered to be 5-10% of run.

Table 7. Length frequency and mean length of jack coho salmon (.+) in Carnation Creek 1971-1980.

Fork lengt											
(cm)		1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
. 1.	1 .	*			. *						
21	. *		. 1								
22			1							1	
23			٠.			1		•	.2		
24						1	2			1	1
25				2		. 3	2	1	1	1	. 2
26			1	* *			1	1	2	2	
27			3	3	1		2	3	5	3	2
28	•		4	3	4	1	4	2	13	6	5
-29		errogio may	4	. • •.	3	2	_ 5		10	4	5
30			6	3	2	8	2	2	12	8	2
31	•		8	3	2	4	3	3	23	11	4 .
32			6	. 2	8	1	3	5	20	6	12
33		3	6	1	3	2	1	4	36	20	12
34		2	8	4	8	7	4	6	20	6	9.
. 35		. 1	12	6	: 5	6	1	1	16	12	9
36		1	3	1	8	- 5		- 5	29	10	6
37		2 .	4	5	5	6	2	3	14	5	3
38		1	3 .	. 3	6	2	: -	- 5	10	6	4
39			4	2	4	1		5	10	4	6
40			1	1	1	2		3	3	3	4
41			1	î	2	2			2	1	4
41			1	2	4			2	4		0
				2	4			2	. 4	1	
43					1			1			. 4
44					2	1		1	1	_	1
45				1	3				×'	1	
46			1			1	~	*			
47		1									1
48,							4 5 5				1.
n		10	77	42	72	54	32	53	233	112	101
Mean	leng th	35.0	33.0	33.8	35.6	33.4	30.1	34.7	33.5		34.8

Table 8. Length frequency and mean length of large male coho salmon (.1+) in Carnation Creek 1971-1980.

Fork ength (cm)	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
				1						
37 38	1, 1		1, .			1	1		1.	1
39	1					1			. 1	
40					1	1	•		1	. 1
41	21. 1. 4	1							2	3
42		•	1	1	.1				•	. 9
43			1	1		1		2 82	1	1
44	1	1		1	1		3	1	2	
45		1				. 1	1	-	2	: 3
46	4.7		1 .	1	*	3	2		2	- 1
47		1	2 .	1		1	2	1 .	1	1
48	1	1	1	5	1		3		. 2	5
49	1	2	1	3.		4	3	1 .	3	. 8
50	annumb sussign	1	1-	2	-2	1	The Manager states	2	1	5
51		2	2	1	. 2	3 .	4	1	6	. 4
52	4			. 4 .	2	5	4		4	- 1
53	1	4	1	. 7	1	5	2	1	7.	. 8
54	**	4	4	3	1	2	4	1	3	2
55		3	5 .	4	2 .	2	2	3	10	4
56	1	1	2 .	4	3	3		2	5	3
57		1	4	. 3		4	3	2	. 8	2
58	1	2	6	4	4	4	5	1	14	3
59		1	2	5	4	3	6	3	5	2
60	1	1	1	2	2	3	3	4	9 -	5
61		4	2	3	3	1	2	3	6	7.
62			2	6	1 "	2	3	1	4	3
63		3	3	4	3	2	4	1	1	3
64		3	1	3	4	2	4	2	5	2
65		1	6	1	3	1	3	3	8	3
66		4	4	3		1	1	1	2	4
67		3	4	3	4	1	1	3	3	5
68 69	1	1	2	2	6	3	4	2	4	2
70		3	4		5	3		2	5	. 4
71		2	2	2	1		1	2	2	1
72		4	4	2	4	1	1	1	2	2
73		5	*	1	4	1	i	1	3	2
74	*	3	2	1	2	1	i		1	3
75		3	4	. 2	7	î	•		4	
76		3	2	-	2	*		+	- 5	
77	*		2	0	2		1			2
78		1	1	1	3			4		-
79		2			2 3 2 3					
80	1	2			3				* :	44
81		2								
82		1 .	1						4666	
83					1					
84		2								
					1				-	
	13	82	85	84	89	67	76	47	136	110

Table 9. Length frequency and mean length of female coho salmon in Carnation Creek 1971-1980.

Fork length (cm)			1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	
42					*		1						4
43													
. 44											1 .		
45			*	+ :							1		
46				1,00									
47				1.	1				*				
48				1			1 .		* .		. 1	4 .	
49	*					1	1			2	1		
50							2	3			2		
51				***	1		. 1 .	1	*	2	3	1	
52.		i	1 1 1				1	2			3		
53			1						1		4		
54				2	. 2		1 2	1	1		3 4	1	
55 56			1 :	1	1 2	1.	1	. 1	. 2	1	1	1	
57				2	~ .		2	2	2	1	1	1	1 . "
58				1	2	.3	1	3	1	1	5 .	1	
59		*,		1	2	1	1	1	2	1	6	2	3
60				•	. •	2	• .	4	1	1	6	1	
61			1	3	1	2	1	1	2	1	7	2	
62			î		î		2		1	3	10	5	
63			4	1	7	3 1 3 4	1 2 5 2 4	2	. 3	2	7	5 3	å,
64				3	4	3	2	5	7	5	13	2	
65				3	2		4	- 1		7	12		
66			1	2	5	3	5	5 4	3	5 7 2 3 4	10	3	
67			,	3 2	5 .	8	1	4	1	3	19	5	
68				2	6	3 8 3 4	3	4	7		21	6	
69		1		5	1	4	5 1 3 3	5	3	7	7	6	
70				4 .	9	6	6	4	4	5	8	7	
71	*			9	3	4	1 6	2	4	3	9	4	
72				6	1	6	6	2	2		2	6	
73				5	6	5 .	2	-	1	3	5	6	
74				7	5 .	1	3	. 1	*	1	. 2	_	*
75				1	4	2	4			1	1	1	
76				4		1	1		1				
77 78				2		-	1	* .*			1		
78 79			9110	1			3	. :					
. 80					1		1						4
00													
n Mean le			9 61.0	69 68.6	71 66.8	65 66.9	69 65.9	54 63.5	51 65.2	56 65.3	176 64.0	64	

Table 10. Weekly count, by sex, of chum salmon passing Carnation Creek fence in 1972-1973.

,	1	1972		•			1973		- d		19	74		
,			T	ota1		,		Т	otal				T	otal .
Week	n	of n	n	Accum.	Week	. n	o' n	n	Accum.	Week	ę n	of n	n	Accum.
					Oct 7-13	4	0	. 4	1	Oct 11	2	7	9	15
					Oct 14-20	89	135	224	41	Oct 13-19	0	1	1	17
					Oct 21-27	103	145	248	86	Oct 20-26	0	1	1	18
Oct 29-N4	19	24	43	. 46	Oct 28-N3	17	18	35	93	Oct 27-N2	0	. 3	3	23
Nov 5-11	9	40	49	99	Nov 4-10	11	19	28	98	Nov 3-9	18	27	45	98
Nov 12-18	. 0	1	1	100	Nov 11-17	5	. 5	12	100	Nov 10-16	0 .	1	1	100
Total	28	65	93			230	323	553			20	40	60	5

Table 11. Weekly count, by sex, of chum salmon passing Carnation Creek fence in 1975, 1976 and 1977.

		1975						1976			• .	•	1977	+ + + × + +	
			To	tal					T	otal				T	otal
Week	ę n	o" n	n	Accum.	Week		o n	ď n	n	Accum.	Week	ņ	o* n	n	Accum.
Oct. 5-11	0	1	1	1	Oct.	3-9	0	1	1	0.5	Oct. 2-8	0	0	0	0
Oct. 12-1	8 7	31	38	39	Oct.	10-16	0	1	1.	1	Oct. 9-15	1	2	3	2
Oct. 19-2	5 11	26	3.7	75	Oct.	17-23	1	5	6	3	Oct. 16-22	6	4	10	7
Oct. 26- Nov. 1	5	13	21*	96	Oct.	24-30	74	123	197	95	Oct. 23-29	65	97	162	94
Nov. 2-8	. 2	2	4	100	Oct.	31-	7	3	10	100	Oct. 30- Nov. 5	6	3	9	99
Nov. 9-15	0	0	' '0		Nov.	7-13	0	0	0		Nov. 6-12	1	1	2	100
Total	25	73	101				82	133	215			79	107	186	1.

\*On October 30, 1975, 3 chum escaped upstream when panel lifted to clean fence, included in total.

NOTE: Some of the fish were dipnetted from the downstream side of fence and released upstream.

Table 12. Weekly count of adult chum salmon, by sex, passing Carnation Creek fence in 1978, 1979, 1980.

	19	78					1979					1980		
	3	1	Т	otal				To	otal .				Tot	al
Week .	ę n	o n	n	Accum.	Week	o n	o" n	n	Accum.	Week	ę n	o n	n	Accum.
		: .	:		12	2	14. 5					4 40	•	
Sep 24-30	3	2	5	. 7										
Oct					Oct .				** .	Oct			. 14	
1-7	0	0	0	7	S30-6	0	0	0		S28-04	0	0	. 0	9.5
8-14	0	2 .	2	10	7-13	0	0	0		5-11	0 .	0	. 0	
15-21	0	0	0	10	14-20		0	0 .		12-18	3	15	18	4.2
22-28	15 2	20	35	63	21-27	2	6	8	89	19-25	99	215	314	77.4
29-N4	8 1	14	22	. 96	28-N3	.0	.1.	1	11	26-N1	24	67	91	98.6
Nov	2 1 4			200	Nov		146			Nov		. 1.		
5-11	0	3	3	100	4-10	0	0.	0		2-8	1	4	5	99.8
12-18	0	0	0		11-17	0	. 0	.0.		9-15	0	0	0	
							7			16-22	0	1	1	100
Total	26 : 4	1	67			2	7	9			127	302	429	

NOTE: In 1978 and 1979 some of the fish were dipnetted from the downstream side of fence and released upstream.

Table 13. Length frequency (fork length) of adult male chum salmon in Carnation Creek 1970-1980.

53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	1 4 3 8 11 13 9	1 1 1 3 2 1 6 8 4 4 4 6	1 2 1 3 3 1 4 3 5 4 11 11 5 15	2 2 2 1 4 10 11 12 12 24 30	1 6 4 11 8 7 15 8	1 1 3 3 3 2 4 5 6	1 1 1 3 5 3 7 7 8 8 7	2 1 3 2 1 3 3 3 7 16	2 4 1 6	2 1 2 2 1 1	1 2 2 4 6 5 5 10 16 23 19 13 33 29 37
54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 79	1 4 3 8 11 13 9	1 1 3 2 1 6 8 4 4	1 2 1 3 3 1 4 3 5 4 11 11 5 15 12	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	1 3 2 1 3 3 3 7	4	1 2 2 1	2 4 6 5 5 10 16 23 19 13 33 29 37
55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	1 1 3 2 1 6 8 4 4	3 1 4 3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	1 3 2 1 3 3 3 7	4	1 2 2 1	2 4 6 5 5 10 16 23 19 13 33 29 37
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	1 1 3 2 1 6 8 4 4	3 1 4 3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	1 3 2 1 3 3 3 7	4	1 2 2 1	2 4 6 5 5 10 16 23 19 13 33 29 37
57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	1 1 3 2 1 6 8 4 4	3 1 4 3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	1 3 2 1 3 3 3 7	4	1 2 2 1	2 4 6 5 5 10 16 23 19 13 33 29 37
58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	1 1 3 2 1 6 8 4 4	3 1 4 3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	1 3 2 1 3 3 3 7	4	1 2 2 1	2 4 6 5 5 10 16 23 19 13 33 29 37
59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	1 1 3 2 1 6 8 4 4	3 1 4 3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	1 3 2 1 3 3 3 7	4	1 2 2 1	10 16 23 19 13 33 29
60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	1 1 3 2 1 6 8 4 4	3 1 4 3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	1 3 2 1 3 3 3 7	4	1 2 2 1	10 16 23 19 13 33 29
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	3 2 1 6 8 4 4	4 3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	1 3 2 1 3 3 3 7	4	1 2 2 1	10 16 23 19 13 33 29
62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	3 2 1 6 8 4 4	4 3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	3 2 1 3 3 3 7	4	1 2 2 1	10 16 23 19 13 33 29
64 65 66 67 68 69 70 71 72 73 74 75 76 77 78	8 11 13 9	3 2 1 6 8 4 4	3 5 4 11 11 5 15 12 10	2 1 4 10 11 12 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	5 3 7 7 8 8 7	3 2 1 3 3 3 7	4	1 2 2 1	10 16 23 19 13 33 29
64 65 66 67 68 69 70 71 72 73 74 75 76 77 78	8 11 13 9	2 1 6 8 4 4 6	5 4 11 11 5 15 12 10	1 4 10 11 12 12 24	6 4 11 8 7 15 8	3 3 2 4 5	3 7 7 8 8 7	2 1 3 3 3 7	4	1 2 2 1	16 23 19 13 33 29 37
66 67 68 69 70 71 72 73 74 75 76 77 78 79	8 11 13 9	2 1 6 8 4 4 6	4 11 11 5 15 12 10	10 11 12 12 12 24	4 11 8 7 15 8	3 2 4 5	7 8 8 7 10	3 3 3 7	4	2 2 1	23 19 13 33 29 37
67 68 69 70 71 72 73 74 75 76 77 78 79	11 13 9	2 1 6 8 4 4 6	11 11 5 15 12 10	11 12 12 24	11 8 7 15 8	3 2 4 5	8 8 7 10	3 3 7	4	2 2 1	19 13 33 29 37
68 69 70 71 72 73 74 75 76 77 78 79	13 9 10	1 6 8 4 4	11 5 15 12 10	11 12 12 24	8 7 15 8	2 4 5	8 7 10	3	4	2	13 33 29 37
69 70 71 72 73 74 75 76 77 78 79	9	6 8 4 4	5 15 12 10	12 12 24	7 15 8	5	7 10	7	1	2	33 29 37
70 71 72 73 74 75 76 77 78 79	9	8 4 4 6	15 12 10	12 24	15 8	5	10			_	37
71 72 73 74 75 76 77 78 79	10	4 6	12	24	8	5	10	16		1	
72 73 74 75 76 77 78 79		6	10			6					
73 74 75 76 77 78 79		6		30			5	10	. 4		11
74 75 76 77 78 79	12		12		38	12	16	14	13	1	, 18
75 76 77 78 79			12	32	25	. 13	12	16	11		19
76 77 78 79	_	1	10	27	17	10	8	14	10	:	14
77 78 79	9	4	16	37	33	14	28	13	. 17	3	18
78 79	5 2	1	7 .	36	27	16	14	15	. 6	2	3
79	2	2	6	18	24	. 11	. 13	16	17	2	4
19	. 1	1	7	10	15 22	13	11	11	9	1	4
80	i	1	4	5	22	3	18 20	13 15	5	1 2	2
80 81	•		2	2	8	1	7		12	2	3
82	1		1	3	20	1	4	5 .	5 11	3.	1
83	•			3	3.	2	5	5		3	
84				. 4	1		5	3	3	,	
85				7	2		2	1	2		
86			• : .	1	1		2	2	. 2 .		7
90							1	-			- 1
	1										

Table 14. Length frequency (fork length) of adult female chum salmon in Carnation Creek 1970-1980.

57	Fork ength (cm)	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
58       2         59       1       1       2       4         60       1       1       2       4         61       2       2       2       1       1         62       1       4       1       3       1       1       5         63       4       1       3       1       1       2       3       2       9         64       4       3       4       3       1       5       2       12         65       6       5       3       2       6       8       1       13         66       4       5       3       9       7       2       4       3       1       14         67       4       9       6       9       2       5       2       3       1       13         68       3       2       8       19       13       5       7       9       7       13         69       5       4       10       23       19       11       8       10       9       2       8       3       10         71       11       4	57	1							*			7 -
59       1       1       1       2       4         61       2       2       2       1       1       1       1       6       1       4       1       3       1       1       5       63       4       1       3       1       1       2       3       2       9       9       6       4       1       3       1       1       1       5       5       6       4       3       4       3       1       1       1       5       6       6       4       3       4       3       1       1       1       5       6       6       5       3       2       6       8       1       1       13       1       1       1       4       9       6       9       2       4       3       1       1       14       6       6       7       2       4       3       1<		2		٠.								
60				*				1	. 2			
61				1	1		• •	. 2	-			4
62		2	2	2	- 2	1				1		
63		-	.1	4.	1	-	·	3	1		1	5
64       4       3       4       3       1       5       2       12         65       6       5       3       2       6       8       1       13         66       4       5       3       9       7       2       4       3       1       1       14         67       4       9       6       9       2       5       2       3       1       13         68       3       2       8       19       13       5       7       9       7       13         69       5       4       10       23       19       11       8       10       9       2       8         70       7       8       12       34       7       10       9       20       8       3       10         71       11       4       14       25       26       18       12       24       25       5       9         72       7       2       9       33       36       15       15       21       21       5         73       1       5       21       23       12       16       <		4 .	î	3	1	1	2 .	3	2		•	9
65       6       5       3       2       6       8       1       13         66       4       5       3       9       7       2       4       3       1       1       14         67       4       9       6       9       2       5       2       3       1       13         68       3       2       8       19       13       5       7       9       7       13         69       5       4       10       23       19       11       8       10       9       2       8         70       7       8       12       34       7       10       9       20       8       3       10         71       11       4       14       25       26       18       12       24       25       5       9         72       7       2       9       33       36       15       15       21       21       5         73       1       5       21       23       12       16       20       7       2       2         74       3       1       4       17		4	.3	4	3		1	. 5	2			12
66       4       5       3       9       7       2       4       3       1       1       14         67       4       9       6       9       2       5       2       3       1       13         68       3       2       8       19       13       5       7       9       7       13         69       5       4       10       23       19       11       8       10       9       2       8         70       7       8       12       34       7       10       9       20       8       3       10         71       11       4       14       25       26       18       12       24       25       5       9         72       7       2       9       33       36       15       15       21       21       5         73       1       5       21       23       12       16       20       7       2       2         74       3       1       4       17       21       9       13       21       15       2       4         75       1		-		3	2	6 .	-	8		1		
68       3       2       8       19       13       5       7       9       7       13         69       5       4       10       23       19       11       8       10       9       2       8         70       7       8       12       34       7       10       9       20       8       3       10         71       11       4       14       25       26       18       12       24       25       5       9         72       7       2       9       33       36       15       15       21       21       5         73       1       5       21       23       12       16       20       7       2       2         74       3       1       4       17       21       9       13       21       15       2       4         75       1       1       3       10       28       8       29       16       12       1       3         76       1       1       2       2       7       5       3       2         79       3       6       5		4		3	9	7	2	4	3	1	1	
68       3       2       8       19       13       5       7       9       7       13         69       5       4       10       23       19       11       8       10       9       2       8         70       7       8       12       34       7       10       9       20       8       3       10         71       11       4       14       25       26       18       12       24       25       5       9         72       7       2       9       33       36       15       15       21       21       5         73       1       5       21       23       12       16       20       7       2       2         74       3       1       4       17       21       9       13       21       15       2       4         75       1       1       3       10       28       8       29       16       12       1       3         76       1       1       2       5       18       5       11       8       5       2       2         78 <td>67</td> <td>-</td> <td></td> <td>9</td> <td></td> <td>9</td> <td>2</td> <td>5</td> <td></td> <td>3</td> <td></td> <td>13</td>	67	-		9		9	2	5		3		13
69       5       4       10       23       19       11       8       10       9       2       8         70       7       8       12       34       7       10       9       20       8       3       10         71       11       4       14       25       26       18       12       24       25       5       9         72       7       2       9       33       36       15       15       21       21       5       5       7       2       2       2       7       2       2       2       2       7       2       2       2       2       7       2       2       2       2       4       7       1       1       1       3       1       1       1       1       3       1       1       1       1       2       1       3       1       1       1       1       3       1       1       1       1       3       1       1       1       3       1       1       1       3       1       1       1       3       1       1       1       3       1       1       1		3	2		19	13	5	7	9 .	7	-	
70       7       8       12       34       7       10       9       20       8       3       10         71       11       4       14       25       26       18       12       24       25       5       9         72       7       2       9       33       36       15       15       21       21       5         73       1       5       21       23       12       16       20       7       2       2         74       3       1       4       17       21       9       13       21       15       2       4         75       1       1       3       10       28       8       29       16       12       1       3         76       1       1       2       5       18       5       11       8       5       2       2         78       1       1       2       2       7       5       3       2         79       5       1       1       2       1       1       3       1       1       1       1       1       1       1       1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>11</td><td>8</td><td></td><td>9</td><td>2</td><td></td></td<>							11	8		9	2	
71			8	12					20			
72     7     2     9     33     36     15     15     21     21     5       73     1     5     21     23     12     16     20     7     2     2       74     3     1     4     17     21     9     13     21     15     2     4       75     1     1     3     10     28     8     29     16     12     1     3       76     1     1     2     5     18     5     11     8     5     2     2       77     3     6     5     16     8     6     2       78     1     1     2     2     7     5     3     2       79     5     1     1     2     1       80     1     1     3     1     1       81     1     1     3     1     1     1		11				26					5	9
73			2				15	15	21	21		5
74     3     1     4     17     21     9     13     21     15     2     4       75     1     1     3     10     28     8     29     16     12     1     3       76     1     1     2     5     18     5     11     8     5     2     2       77     3     6     5     16     8     6     2       78     1     1     2     2     7     5     3     2       79     5     1     1     2     1       80     1     1     3     1     1       81     1     1     1     1     1	73		1								2	2
75		3	1						21	15	2	4
76 1 1 2 5 18 5 11 8 5 2 2 77 3 6 5 16 8 6 2 78 1 1 2 2 7 5 3 2 79 5 1 1 2 1 80 1 1 3 11		1	1	3 .	10		8	29	16			3
77 78 1 1 2 2 75 3 6 5 16 8 6 2 77 79 5 1 1 2 1 80 1 1 1 1 1	76	1	1	2		. 18	5	11			2	2
78 1 1 2 2 7 5 3 2 79 5 1 1 2 1 80 1 1 3 1	77			٠	3		5	16	8 .	6	2	
79 80 1 1 3 1 81			1	1	2	2	1.	7	5	3	2	i,
80 1 1 3 1 81 1 1						5	1	1	2	1		4,
81 1 1					1		1	3				1
00	81								1	1		
82	82						1		*			1

Table 15. Fork length and age composition (otoliths) of chum salmon adults in Carnation Creek 1973-1980.

				0.2				.:	0.3					0.4		,
Sex	Year	n	% 0.2	Mean Ln. (cm)	8	Range (cm)	n	% 0.3	Mean Ln. (cm)	8	Range (cm)	n	7.0.4	Mean Ln. (cm)	В	Range (cm)
ď	1973	8	8.3	66.4	2.62	63-70	79	82,3	73.2	3.70	65-80	9	9.4	78.8	3,23	75-84
	1974	12	12.6	66.9	3.58	59-72	76	80.0	73.6	3.31	66-81	7	7.4	80.7	3.04	77-85
	1975	5	8.5	66.6	2.88	63-69	50	84.7	75.3	3.07	68-83	4	6.8	80.7	1.71	79-83
	1976	14	14.0	65.5	2.38	62-70	76	76.0	76.3	3.39	68-83	10	10.0	82.7	2.06	80-86
	1977	8	8.2	67.4	5.01	60-73	80	82.5	77.1	3.85	69-85	9	9.3	83.4	2.24	79-86
	1978	5	5	71.8	2.59	68-75	87	88	76.4	3.95	67-85	7	7	81.9	1.77	79-82
	1979		18	65.7	1.53	64-67	14	82	77.4	2.90	72-82	0	0	-	-	-
	1980	13	14	65.1	4.99	58-74	80	83	70.3	4.07	62-80	3	3	79.0	3.00	76-84
ç	1973	6	6.1	64.2	3.92	58-68	84	84.8	70.8	2.51	64-78	9	9.1	72.6	2.45	69-77
	1974	6	6.3	66.3	3.50	61-70	82	86.3	71.6	2.79	65-77	7	7.4	75.6	2.99	72-79
	1975	8	10.8	67.2	2.71	63-71	61	82.4	72.5	2.89	63-82	5	6.8	75.8	3.03	72-80
	1976	7	7.3	64.4	.98	63-66	84	87.5	73.4	3.36	64-78	5	5.2	76.8	2.86	73-80
	1977	11	11.2	69.0	1.95	66-73	83	84.7	73.6	2.44	68-81	4	4.1	77.5	1.73	75-79
	1978	8	8	68.2	1.16	66-69	89	89	72.6	2.65	65-79	3	3	75.0	1.73	74-77
	1979	1	5	67.0	-	67	20	90	72.4	3.30	66-78	1	5	77.0	-	77
	1980	9	14	67.6	3.40	64-72	51	81	69.8	3.94	62-78	3	5	77.3	.58	77-7

Table 16. Summary of adult steelhead sampling at counting fence in Carnation Creek.

Date of sampling	Migrating upstream (U.S.) downstream (D.S.)	Sex	Length (cm)	Age	Comment'
1971	D.S.	ď	61	2+.2	
19/1	D.S.	ď	40	3+.1	In 1971 and 1972 all steelhead
	D.S.	ď	69	3+.2	were sampled as kelts which
1972	D.S.	ď	69	3+.2	were caught in the downstream
19/2	D.S.	. 0	67	R.2	smolt traps
	D.S.	Q	70	R. 151	smort traps
	D.S.	ç	60	3.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	D.S.	ď	65	R.2	one kelt was caught 15 days
		o.	60	R.2	after tagging, 1 km up
eteropeticlesselfdagt* (10° s'accor a persio	D.S.	ď	70	3.2	Sarita River
4	D.S.	0	70	3.2	Sarita River
1973 Jan 13	v.s.	ď	64	3.2	
Feb 27		Q	68	4.2	Deventure Ven 9 (helb)
reb 27	U.S.	ç	69	4.2	Downstream May 8 (kelt)
Mar 13	U.S.	Ş.	70	4.2	Downstream May 23 (kelt)
Mar 13	U.S. U.S.	Q,	73	R.3	Downstream May 24 (kelt)
Mar 1/	v.s.	ō.	60	3.2	Downstream May 8 (kelt)
		Ŷ.	66	3.2	Downstream may o (Kert)
Apr 18	U.S.	Q.	77	3.3	Downstrasm May 9 (helt)
Apr 27	U.S.	ç	54	-	Downstream May 8 (kelt) kelt
May 23 May 23	D.S.	¥	54	3.2	kelt
•	2.2.				
1974 Jan 1	U.S.	ď	77	3+.251	
Jan 1	U.S.	Q.	58	3+.2	
Mar 5	U.S.	ď	82	R.3S1	Sampled first on 17/3/73
mar o	0.5.	0	04	K.351	(73 cm)
Apr 11	D.S.	Q	60	4.2	kelt
	U.S.	Ŷ	66.5	3.2	Kert
May 2 May 9	D.S.	ď	76	3.281	kelt
May 9 Dec 17	U.S.	ç	60	3.251	REIL
	0.5.	*	00	3.4	
1975	*				
Mar 15	U.S.	ď	70	4+.2	
Mar 15	U.S.	Q	75	R.2SS1	
Apr 13	U.S.	Q.	66	3.2	
Apr 16	U.S.	\$	63	R.2	
Mar 19	U.S.	O.	71	R.2	* · · · · · · · · · · · · · · · · · · ·
1976					* * *
Mar 18	U.S.	Q	77	3.2S1	
Mar 18	U.S.	ç	66	R. 2	
Mar 18	U.S.	0	67	3.2	Downstream May 18 (kelt)
Mar 22	U.S.	ç	70	4.2	
Mar 27	U.S.	Ŷ	64	4.2	Downstream: May 25 (kelt)

- 32 -Table 16 (cont'd)

Date of sampling	Migrating upstream (U.S.) downstream (D.S.	) Sex	Length (cm)	Age	Comment
1977					
Mar 23	v.s.	ď	64	3.2	Lost downstream at time of tagging. Caught in China
Mar 23	U.S.	φ.	64	3.2	Creek April 77
Mar 23	U.S.	ď	69	3.2	Caught in Useless Inlet by commercial fisherman May 29/77
1980					
May 21	D.S.	-	63	3.2	kelt

A Section 1

Table 17. Summary of adult cutthroat trout sampling at counting fence in Carnation Creek.

1971 Mar 18 1972 Oct 26 1973 Oct 16-30 1974 Apr 3 Oct 3 Nov 15 Nov 15 Nov 21 Dec 17 Dec 21	U.S. U.S. U.S. U.S. U.S. U.S. U.S. U.S.	• • • • • • • • • • • • • • • • • • •	(1 kg)	*2.+ 2.+ 2.+ 2.+ 2.+ 2.+	3 fish	(26-30	) cm)		
1972 Oct 26 1973 Oct 16-30 1974 Apr 3 Oct 3 Nov 15 Nov 21 Dec 17	U.S.  U.S.  U.S.  U.S.  U.S.  U.S.  U.S.  U.S.	- 0? 0 0 0 0	31 28 27 29 30.5	2.+ 2.+ 2.+	3 fish	(26-30	em)		
0ct 26 1973 0ct 16-30 1974 Apr 3 0ct 3 Nov 15 Nov 21 Dec 17 Dec 21	U.S. U.S. U.S. U.S. U.S. U.S.	d 9 0 9	28 27 29 30.5	2.+ 2.+ 2.+	3 fish	(26-30	) cm)		
Det 16-30 1974 Apr 3 Oct 3 Nov 15 Nov 21 Dec 17 Dec 21	U.S. U.S. U.S. U.S. U.S.	d 9 0 9	28 27 29 30.5	2.+ 2.+ 2.+	3 fish	(26-30	) cm)	2010 min - 1	*
Det 16-30 1974 Apr 3 Det 3 Nov 15 Nov 21 Dec 17 Dec 21	U.S. U.S. U.S. U.S. U.S.	d 9 0 9	28 27 29 30.5	2.+ 2.+ 2.+	3 fish	(26-30	) cm)		*
Apr 3 Oct 3 Nov 15 Nov 21 Dec 17	U.S. U.S. U.S. U.S. U.S.	d 9 0 9	28 27 29 30.5	2.+ 2.+ 2.+					
Apr 3 Oct 3 Nov 15 Nov 21 Dec 17	U.S. U.S. U.S. U.S.	d 9 0 9	28 27 29 30.5	2.+ 2.+ 2.+	TO A MARK COMPANIES.				*
Oct 3 Nov 15 Nov 21 Dec 17	U.S. U.S. U.S. U.S.	¢ ¢ ¢?	27 29 30.5	2.+ 2.+ 2.+					
Nov 21 Dec 17 Dec 21	U.S. U.S. U.S.	₫ ₽ ₫?	29 30.5	2.+					
Dec 17 Dec 21	U.S. U.S.	9	30.5	2.+	* *				
Dec 21	u.s.	đ?							
	v.s.		30	2.+					
1975	U.S.							,	
					•		1		
Jan 23		2	33	a2.+	By cal	endar a	ge the	ene i	fish
Mar 2	U.S.	ď	36	2.+	are .	l with	the f	irst	
Mar 30	U.S.	9	32	a2.+	ocean				ning
Nov 22	U.S.	?	26	3.+	at the	scale	marg i	n.	
1976									
Mar 18	U.S.	9	38	R.2				٠.	
Apr 12	U.S.	ď	31	R.1					
Oct 10	U.S.	?:	28	3.+					
1978	× *.								
Feb 5	U.S.	9	37	3.1				: .	
Mar 8	U.S.		34	a3.+	*				
Mar 15	U.S.	Q	41	3.1			*.		
Mar 23	U.S.	9 9 9 9 9	34	-					
Apr 6	D.S.	Q	37	3.1				*	
Apr 6	D.S.	9	35	R.2					
Nov 8	U.S.	9	32	3.+					
1979									:
Apr 4	D.S.		32	3.2	* 7 .				
May 31	D.S.		33	3.2	1,				
Dec 4	U.S.	9	31	3.+					
Dec 6	U.S.	ď	47	2.1	***				2
1980									
May 1	D.S.	Ŷ	32	2.1					
May 12	D.S.	*	29	3.1	***				
May 20	D.S.	2	30	2.1				2.	
Nov 24	U.S.	ď	33	2.+					

Table 18. Summary of downstream migrant counts of juvenile salmonids in Carnation Creek 1971-1980.

Species	Age .	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Chum	Fry	356,078	148,090	10,497	137,586	6,936	11,060	53,078	52,930	6,025	129
Coho	Fry	122,774	25,664	19,183	21,600	31,362	24,714	7,877	13,975	5,285	27,654
	I+(<60 mm)	62	40	141	184	128	206	103	27	19	21
	1+(>60 mm)	1,000	1,305	974	1,030	1,119	1,788	1,522	3,841	2,843	3,555
	II+	1,415	574	776	1,444	874	1,068	935	778	668	991
	I+(>60 mm),II+	2,415	1,879	1,750	2,474	1,993	2,856	2,457	4,619	3,511	4,546
Steelhead	<100 mm	308	39	113	179	128	301	176	7	1	10
	>100 mm	167	. 59	. 93	78	68	113	106	103	20	51
Cutthroat	<100 mm	10	-	8	. 7	34	16	24	7	. 3	. 6
	≥100 mm	19	. 4	24	48	58	78	93	60	25	60
Cottus aspe	r	668	717	750	338	170	118	311	427	233	300
Cottus aleuticus		167	361	160	313	110	42	. 7	41	42	61
Sampling period	*	Feb 25 -Sep 21	Apr 10 -Sep 25	Mar 12 -Sep 28	Mar 13 -Aug 8	Mar 23 -Jul 12	Apr 2 -Sep 18	Mar 23 -Jul 23	Mar 15 -Aug 30	Mar 2I -Jul 25	Mar 18 -Aug 1

NOTES: - Trapping in 1971 was at a temporary site with fishing capacity severely restricted.

<sup>- 1972</sup> counts include adjustments for run prior to April 10 using the 1971 data.

<sup>-</sup> In 1971 sculpin counts didn't start until May 20.

<sup>-</sup> Sculpin counts end on: June 29, 1978; June 14, 1979; July 7, 1980.

Table 19. Dates when 25, 50, and 75% of the downstream migration of coho, chum and steelhead occurred in Carnation Creek 1971-1980.

·	97	1071		0.72	10	70	10	7/.	10	75	10	76	10	77	10	70	10	70	10	90
Species	. 10	1971		9/2	19	/3	19	/4	19	15	19	/0 -	19	//.	19	/6	19	19 .	19	80
Coho	25	Apr 2	7 Ap	r 24	Apr	30	Apr	28	May	2	Apr	27	Apr	25	Apr	18	Apr	18	Apr	22
smolts	50	May 1	4 Ma	y 4	May	8	May	9	May	9	May	10	May	4	May	2	Apr	30	Apr	30
1	75	May 2	2 Ma	y 27	May	18	May	19	May	19	May	19	May	13	May	11	May	6	May	7
Steelhead	25	May 1	3 Ap	r 25	Apr	30	May	8	May	15	May	10	May	3	Apr	22	Apr	14	May	1
> 100 mm		May 2																		
		Jun 1																		
Coho	25	May 1	2 Ma	v 9	Apr	21	Apr	24	Apr	22	Apr	30	Apr	7	Apr	7	Apr	16	Apr	10
fry		May 1																		
•		Jun																		
Chum	25	Apr 2	7 . Ma	y 6	May	2	Apr	24	Apr	23	Apr	19	Apr	5	Apr	7	Apr	19	Apr	3
fry	50	May	1 Ma	y 11	May	7	Apr	29	May	1	Apr	24	Apr	8	Apr	12	Apr	23	Apr	
. *		May																		

Table 20. Mean lengths, standard deviation and range of coho salmon fry at ~ 10 day intervals in the 1973-1980 Carnation Creek outmigrations.

Date	₹ (mm)	n	s	Range (mm)
-				nouge (ma)
		1973		
Apr 26	38.1	58	1.10	35-41
May 3	38.4	51	1.60	35-41
13	37.2	52	2.22	33-42
25	38.0	. 76	1.84	33-45
Jun 2	39.2	41	1.82	35-43
13	40.2	70	2.66	34-48
		1974		
Mar 17	35.5	34	1.46	33-39
29	37.4	50	1.51	33-41
Apr 8	37.4	19	1.67	34-40
18	37.6	44	1.43	35-40
28	36.8	38	1.55	33-40
May 8	37.9	55	1.88	32-42
18	37.8	50	1.57	33-40
28	38.2	52	2.62	30-44
Jun 7	40.2	36	3.12	35-49
Jul 10	41.7	60	3.17	35-54
Sep 8	44.2	56	4.30	40-60
Oct 1	46.4	29	2.80	40-52
		1975		1
Apr 2	37.1	60	1.60	32-40
10	36.6	62	1.18	34-39
20	38.8	54	1.20	37-41
30	38.7	52	1.05	36-42
May 10	38.9	50	1.37	35-41
25	38.9	. 31	1.67	34-41
Jun 4	39.5	73	1.45	36-42
		1976		
Apr 3	39.6	54	.88	38-42
14	38.0	66	1.32	35-40
24	38.5	50	1.07	36-41
May 2	38.4	53	.99	36-40
11	37.6	52	1.23	35-41
21	39.1	58	1.30	36-43
Jun 4	39.5	34	2.61	
13	37.4	45	1.63	32-46
22	40.9	53	3.74	35-44
Jul 4	42.0	64	3.04	35-50
14	43.8	51	2.52	34-49
29	43.4	50	2.80	38-50
	44.1	54		38-50
Aug 14	det T	24	2.72	37-50

Table 20 (cont'd)

		*		
Date	ž (mm)	n	8	Range (mm)
		1977		
Mar 24	37.1	49		
	36.9	45	.95	35-40
Apr 3			.69	36-38
14 26	38.2 37.6	48	1.04	36-40
		51	1.31	34-44
May 3 Jun 6	38.4 46.0	45	1.32	36-43
Jun 6	40.0	14	4.44	37-51
	* 5	1978		
Mar 24	39.1	88	.96	37-44
Apr 1	36.8	69	1.10	34-39
10	35.6	50	1.12	33-39
20	36.3	18	.97	34-38
30	39.0	. 66	1.25	35-42
May 11	38.7	71	1.38	37-46
29	40.3	51	2.98	34-49
Jun 10	42.3	. 69	3.43	34-52
13	42.3	117	3.30	35-52
24	46.8	. 30	2.85	42-53
Aug 15	48.5	170	3.43	40-58
Prof. (		1979	*	*
				1
Mar 24	36.3	48	.90	33-38
Apr 2	35.0	54	1.34	33-38
13	37.0	50	1.25	34-39
21	38.2	50	.72	36-39
May 2	37.3	50	1.06	36-43
18	41.7	40	3.71	38-49
Jun 5	46.5	28	4.15	38-56
Jul 11	50.7	183	4.47	40-62
		1980	*	
Mar 18	38.0	61	1.53	34-40
27	38.2	46	1.49	35-41
Apr 3	37.7	172	1.50	35-43
12	37.5	52	1.24	35-40
23	37.1	62	2.26	33-45
May 3	36.8	25	.71	35-38
12	38.6	17	2.32	36-44
22	38.0	63	1.61	34-46
Jun 2	39.1	16	2.96	39-44
9	38.2	49	2.28	32-45
12	39.8	56	2.99	34-52
24	41.2	75	2.45	37-47
Jul 2	41.3	138	2.96	35-51
11	41.9	49	2,22	38-48

Table 21. Mean length, standard deviation and range of chum salmon fry at  $\sim 10$  day intervals in the 1973-1980 Carnation Creek outmigrations.

Date	x (mm)	n	s	Range (mm)
4		1973		
Apr 26	42.6	48	1.411	38-45
May 3	40.9	60	1.523	37-43
13	42.2	51	1.617	39-45
		1974		
	41.0	66	1 212	27 /2
Apr 8	41.0		1.312	37-43
18	41.1	48	. 799	39-43
28	42.0	45	. 866	40-44
May 8	42.3	54	1.479	40-45
18	41.0	50	2.218	37-44
28	42.7	50	1.222	37-45
		1975		
Apr 16	41.5	50	.614	40-43
26	43.2	50	1.001	41-45
May 4	41.1	51	1.111	40-45
10	42.0	50	.937	40-44
20	41.3	50 .	.882	39-43
Jun 4	41.4	26	1.027	40-44
Jun 4	41.4	20	1.02/	40-44
		1976		
Apr 3	43.0	31	. 752	42-45
14	43.2	49	1.000	40-45
24	42.3	57	.985	40-44
May 2	42.5	50	1.015	41-45
11	42.5	50	.909	40-45
		1977		
Mar 24	41.0	57	1.076	38-44
Apr 3	41.2	50	1.674	38-45
14	42.7	50	1.168	40-45
May 26	42.3	40	1.289	38-44
3 3	43.0	41		
. 3	43.0	41	1.695	38-47
		1978		
Mar 24	42.1	76	1.937	38-45
Apr. 1	40.5	50	. 886	39-43
10	42.0	50	1.068	40-44
20	41.9	33	.914	40-44
30	42.5	50	.788	41-44

Table 21 (cont'd)

Dat	e			x (mm)	n	8		Range (mm)
			. 4		1979			
Mar	24			44.4	65	1.155		41-46
Apr		٠.	٠.	41.0	51	.761		39-42
	21			41.3	52	.977		39-43
May	3			41.3	17	1.169		39-43
					1980			
Apr	3			41.7	57	1.082	٠	38-44

Table 22. Age composition and mean length of juvenile rainbow trout in the downstream migrations in Carnation Creek.

ear	٠.	Age	n	₹ (mm)	s	Range (mm
971		I	123	67.1	6.9	47-
		II(all)	190	95.1	13.3	-137
		II(>100 mm)	53	113.1	11.5	100-137
		III	64	162.3	14.04	140-192
		IV	7	197.3	15.54	172-213
972	٠	1	35	67.6	12.03	48-91
		II(all)	21	113.7	12.79	93-137
		II(>100 mm)	17	118.3	9.18	102-137
		III	23	173.9	15.72	140-197
		· IV .	2	220.5	2.12	219-222
973		1	20	70.0	9.68	54-97
		II(a11)	67	96.2	10.89	80-124
		II(≥100 mm)	25	107.9	7.14	100-124
		III	. 32	153.2	19.55	112-195
		IV	. 2	178.5	30.41	157-200
974		ī	110	68.2	8.54	52-92
,,,		II(all)	52	99.9	12.89	78-131
	*	II(≥100 mm)	24	111.5	7.62	101-131
		III	32	157.7		
		IV	8	193.4	19.50 13.35	126-199 172-214
	41.5	14	0	193.4	13.33	1/2-214
975		I	87	75.0	9.97	56-97
		II(all)	63	99.4	15.89	78-159
		II(≥100 mm)	. 21	116.3	16.43	100-159
		III	40	153.3	14.95	126-188
		IV	5	183.6	11.46	169-199
976		I	122	68.0	6.89	52-85
		II(all)	221	92.4	9.23	73-125
	4	II(≥100 mm)	47	105.9	6.40	100-125
		III	50	146.4	15.83	108-172
		IV	13	186.5	18.30	164-235
977		ı	33	76.7	10.40	57-105
		II(all)	191	94.6	10.17	76-140
		II(≥100 mm)	49	108.1	8.90	100-140
		III	38	145.2		
					16.37	102-175
		IV	15	174.9	22.04	148-227
78		I	13	100.2	15.59	72-117
		II(a11)	43	121.6	13.62	98-151
		II(≥100 mm)	42	122.2	13.27	100-151
		III	51	152.6	16.04	104-190
		IV	3	206.3	10.21	199-218

Table 22 (cont'd)

Year	Age	n	x (mm)	8	Range (mm)
		2	116.6		110 101
1979	1	. 2	116.5	6.36	112-121
7	II(all)	5	112.6	13.22	94-128
1	II(≥100 mm)	4	117.2	9.43	105-128
	III	13	146.0	11.97	131-173
	IV	1	203.0		
1980	I	16	95.0	13.15	74-124
	II(all)	. 5	146.6	12.44	128-158
e	II(>100 mm)	5	146.6	12.44	128-158
	III	38	169.0	16.59	140-204
	IV	2	229.0	14.14	219_239

Table 23. Age composition and mean lengths of juvenile cutthroat trout in the downstream migrations in Carnation Creek.

15	*					
Year	Age	n	x (mm)	8	Range (mm)	
1971	1	10	78.8	8.20	64-92	
7.7	II(all)	16	124.9	21.27	99-159	
	II(>100 mm)	15	126.6	20.83	100-159	
	III	3	181.0	15.87	169-199	
	IV	1	242.0		• . 4	
						1
1972	I	0	*		: 1.	
	II(all)	2	137.0	41.01	108-166	
	II(≥100 mm)	2	137.0	41.01	108-166	
	III	2	174.5	14.85	164-185	
1973	I	4	89.3	13.10	70-98	
	II(a11)	24	120.3	20.59	93-165	
	II(≥100 mm)	20	125.2	19.00	103-165	
	III	4	184.3	27.77	164-225	
1974	I	3	82.0	11.27	75-95	
	II(all)	21	121.0	16.61	96-152	
	II(≥100 mm)	19	123.6	15.29	101-152	
	III	24	155.9	16.23	127-186	
	IV .	1	184.0		184	
1975	I	12	88.7	13.82	65-115	
	II(all)	56	112.4	20.31	77-154	
	II(>100 mm)	36	125.0	13.18	100-154	
	III	18	159.6	18.99	132-200	
	IV	1	191.0	-	-	
1976	I.	2	75.5	14.85	65-86	
	II(all)	52	107.2	13.99	79-137	
	II(≥100 mm)	39	113.2	10.26	100-137	
	III	34	144.7	13.98	119-175	
	IV	2	181.0	1.41	180-182	
1977	I	6	85.3	10.37	74-101	
	II(a11)	60	109.5	12.74	80-139	
	II(>100 mm)	47	114.7	8.49	100-139	
	III	41	140.2	14.30	110-171	
	IV	3	198.7	19.09	177-213	
1978	I	19	105.9	10.50	86-124	
	II(all)	34	115.9	12.51	98-144	
	II(>100 mm)	33	116.4	12.29	100-144	
	III	14	147.2	13.67	126-172	

Table 23 (cont'd)

	_ `				
Year	Age	. n	x (mm)	8	Range (mm)
1979	ī	5	108.0	8.86	95-120
	II(all)	17	115.8	15.30	91-141
	II(≥100 mm)	15	119.5	9.53	102-141
	III	6	148.7	14.38	126-171
1980	I	13	98.9	13.10	80-129
	II(all)	34	134.8	18.13	101-180
	II(≥100 mm)	34	134.8	18.13	101-180
	III	19	166.7	17.22	142-195

Table 24. Late summer resident population estimates on lower Carnation Creek (3070 m) 1970-1980.

Species	Age			1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Coho	0	95% C.I.	N lower upper	14142 11451 16832	11834 9571 14099	9223 8734 9714	9063 8525 9603	12460 12287 12635	11482 11366 11598	12327 12130 12515	10603 10480 10723	10928 10838 11014	13230 13136 13322	20953 20810 21093
	I	95% C.I.	N lower upper	795 340 1245	1286 690 1881	700 591 807	1228 1086 1362	1112 1076 1153	1333 1310 1360	1232 1178 1286	1238 1198 1274	1089 1067 1117	1547 1479 1617	2142 2052 2229
R.B.T.	0	95% C.I.	N lower upper	1691 767 2609	3449 1966 4931	1593 1272 1917	5114 4545 5683	3545 3330 3770	2892 2769 3012	2939 2806 3068	344 179 511	136 126 152	•	269 176 367
	I	95% C.I.	N lower upper	694 127 1262	499 154 848	385 227 544	229 0 504	456 399 513	376 332 420	355 281 420	232 - 632	94 88 101	•	16
	ï	95% C.I.	N lower upper	392 136 653	120 34 203	58 - 230	101 72 124	~76 -	~85	~80	258 - 611	68 21 121	39 12 59	24
*.	III	95% C.I.	N lower upper	:	130 21 235	•	- -	-10		:	= :	- -	:	:
Cottus aleuticus	2	95% C.I.	N lower upper	• -	19250 11542 26962	2286 1835 2742	4536 2780 6295	4058 2465 5651	2488 2155 2812	1642 1173 2116	1617 1208 2025	3410 3017 3806	1845 1289 2395	1832 1605 2055

Table 25. Late summer fish density (fish/m) by study section and species in lowest 3070 m of Carnation Creek 1970-1980.

Species	Age	Section	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Coho	ó	11	.95	1.14	.60	.61	.65	.61	.72	.24	.45	.72	.70
		III	1.26	. 82	.59	.52	.76	.38	.58	.30	.35	.60	.98
		IV		.44	1.01	1.05	1.27	.98	.92	.44	.74	1:14	1.97
		V			7 1	.44	1.01	.86	. 88	1.18	.66	.29	1.24
		VI	1.86	.96	1.01	.93	1.30	1.00	.69	.78	.60	.51	1.15
		VIII	1.05	.99	.86		.68	.68	.47	.30	.27	.94	1.58
		Combined	1.23	. 89	.80	.71	.92	.75	.69	. 53	.50	.74	1.26
	I	II	.06	.16	.05	.12	.10	.13	.09	.10	.02	.10	.12
		III	.07	,11	.09	.10	.06	.05	.08	.06	.04	.12	.19
		IV		.05	.06	.11	.12	.09	.08	.09	.05	.11	.19
		V				.05	.08	.05	.07	.06	.10	.10	.10
		VI	.09	.05	.03	.17	.08	.13	.07	.04	. 10	.07	.11
		VIII	.02	.06	.09	.04	.03	.03	.04	.03	.02	.04	.13
		Combined	.07	.10	.06	.10	.08	.09	.07	.06	.05	.09	.13
ainbow	0	11		.08	.04	.04	.01	.05	.28				
		III		.31	.17	.05	.02	.12	.14				
		IV		.15	.01	.32	.05	.16	.20		1 14	-	
		V				.75	.90	.30	.37	+	*		
100		VI		.46	.08	.77	.38	.28	.01				
		VIII		.47	.47	1.22	.58	.34	.04				
		Combined	.15	.26	.14	.41	.26	.19	.16	.02	.01	•	.02
	I	II			.01	.02	.02	.01	.003				
• 1	-	III			.01	.03	.04	.01	.003				
A 6.5		IV			.05	.003	.03	.01	.02	,			
		V			.03	,005	.02	.01	.01				
		VI		,	.02	~.01	.04	.05	.05				* 4
		VIII			.13	.02	.06	.11	.03				
		Combined	.06	.04	.03	.02	.03	.02	.02	.01	.004	.002	.001
												.002	
	II	Combined	.03	.01	.005	.01	.006	.006	~.004	.01	.003		.001

Table 25 (cont'd)

Species	Age	Section	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Cutthroat	0	Combined									.04	.02	.01
	I										.006	.005	.01
4	II							1.			.004	.0004	.003
	III					1 4 9 9			1		.002		.00
Cottus asper		II		.37	.05	.03	.02	.06	.03	.04	.04	.10	.05
ottus aleuticus		II		3.02	. 59	2.05	1.22	.40	.40	.25	.61	.36	.22
		III		.34	.12	.16	.32	.09	.02	.02	.04	.01	.05
		IV.		.35	.08	.08	.03	.03	.03	.03	.10	.02	.06
		V			1.1	.13	.28	.10	.04	.02	.03	.08	.10
		VI		1.05	.05	.15	.07	.08	.04	~.04	.05	.03	.08
		VIII		.88	.19	. 13	.10	.20	.04	. 15	.05	.07	.15
	. *	Combined		1.44	.20	.36	.30	.16	.09	.08	.16	.10	.11

Note: Combined is not a mean but derived from areas and catches in all sections combined for population estimates.

Table 26. A summary of late summer fish density (fish/m2) by year, location, species, and age.

								4				*1, *1	
Location	Species	Age	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Lower Carnation	Coho	0	1.15	.88	.80	.73	.92	.75	.69	.53	.50	.74	1.26
	R.B.T.	O I II	.14	.26	.14	.41 .02 .01	.26 .03	.19 .02 .005	.16	.02 .01	.006 .004 .003	.0002	.016
	C. aleuticus	III		.01 1.43	.20	.36	.001	.16	.09	.08	.0004	.10	.11
Upper Carnation	C.T.	O II III		.01	.01 .15 .08	.23 .10 .13	.13 .13 .06	.07 .07 .09	.19 .12 .05	.16 .11 .02	.06 .06	.29 .16 .03	.13
Tributary	C.T.	0 I II		.002	.07 .56	.48	.69	.41 .30	.33	.15	.20 .32 .04	~ .05 .12 .05	.25
Useless Creek	Coho	III O I			.52	.02	.02	.32	.28	.02	.13	.38	.35
Creek	С.т.	0 1			.02	.18	.05 .18	.09	.02	.02	.03	.12 .02	.08 .07
+ 4+1.**	C. aleuticus	III			.62	.32	.01	.01	.01	.01	.73	.79	~.24
Fredericks Creek	Coho	0		.48	.55	T.	.21	.42	.37	.32		.39	
* * * * * * * * * * * * * * * * * * *	R.B.T.	0 1			.05		.01	.04	.01	,05		.06	
grading they	C. asper C. aleuticus	-		1.19	.23		.48	.34	.17	{.51}		2.50	

Table 26 (cont'd)

Location	Species	Age	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
South	Coho	0		.70	.33	.29	,21	.68	.43	.40	.37	1.26	.98
Pachena		I			.05	.06	.05	.08	.05	.05	.02	.05	.05
	RBT	0		.38	.10	.27	.04	.20	. 14	.21	.14	.27	.20
		I		.04	.05	.01:	.01		.01	.01	.01	.02	.03
		II		.01	.02			4		20 20			.002
	C. asper			1.78	.40	.12	.21	.34	.24	.20	.25	.22	.26
	C. aleuticus			.03	.08	.08	.24	.08	.33	.33	, 36	~.22	. 16
Ritherdon	C.T.	0		1.34	.22	. 83	.53	.57	.21	. 16	.06	.11	. N.14
Creek		I		. 15	.33	.13	.17	.12	.09	.04	.05	2.03	.03
		II		.05	.06	.01	.02	.04	.04		2.01	.04	.003
		III	•	.04			.01		.01	.01	.003	.01	. 003

Table 27. A summary of late summer salmonid biomass (gm/m²) by year, location, species, and age.

Location	Species	Age	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Lower Carnation	Coho	0	2.28	1.25	1.06	1.01	1.21	1.23	.91	1.26	1.03	1.60	1.90
	R.B.T.	I II III	.20 .39 .62	.19 .26 .14 .33	.08 .20 .15	.32 .11 .12 .04	.21 .16 .10	.20 .16 .08	.15 .11 .04	.04 .11 .17	.02 .05 .07	.04	.05 .01 .06
Upper Carnation	C.T.	I II III		.44 .53 2.43 .06	.01 1.10 1.79	.06 .72 1.79 1.40	.07 .55 .90	.03 .30 1.06 .27	.10 .69 .85	.12 .66 .23	.06 .42 .26	.31 1.10 .59 .16	.13 .76 .83
Tributary	C.T.	I II III			.05 3.25 1.49	.33 1.72 3.29 .30	.65 1.43 .42 .95	.39 2.18 1.14	.30 1.31 1.16	.14 1.55 .41 .37	.31 2.14 1.19	~.13 1.05 1.01	.65 .65 .67
Useless Creek	Coho .	. O			.76	.08	.28	.66	.38	.53	.32	. 89	.66
	C.T.	III III			.01 1.04 .59	.23 .70 .73	.04 1.20 .38 .77	.05 .60 .96	.08	.01 .38 .27	.02 .38 .39	.11 .12 .05	.05 .46 .16
Fredericks Creek	Coho	0		1.06	1.30		.44	1.31	.60	.95		1.23	
	R.B.T.	II			.05		.01	.07	.02	.07		.08	
South Pachena	Coho	0		1.87	.70	.40	.30	1.28	.56	1.06	.86	1.59	1.69

Table 27 (cont'd)

										1.				
Location	Species	Age	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	. 19	80
South Pachena	R.B.T.	O I II		.57 .44 .23	.11	.26	.03	.23	.13	.29	.19	.31 ~.15	.22 .42 ~.48(I	1,111)
Ritherdon Creek	C.T.	III		-	.31 2.58 1.61	1.45 1.28 .34	.80 1.35 .59	1.02 .99 .83	.22 .46 .50	.25 .36 .61	.11 .42 ~.29 .17	.16 ~.35 .81 .62	~ .24 .42 .16 .26	

Table 28. A summary of late summer mean fork lengths (mm) for all salmonid species for all streams by year.

										1.1.1.1.1		-	
Location	Species	Age	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Lower Carnation	Coho	0	52.4 78.5	48.1	46.1 77.5	50.6 75.7	49.5 78.5	54.3 76.1	49.5 75.1	59.9 80.1	57.1 80.9	58.0 79.9	51.7 76.7
	R.B.T.	0 II III	51.3 80.4 115.4	40.5 79.8 107.2 141.6	40.8 75.9 133.8	44.7 83.8 111.7 168.0a	44.5 83.0 128.0 141.0 <sup>a</sup>	47.9 83.5 111.4	46.6 84.3 117.8	59.9 94.9 108.4	63.7 106.6 129.5 169.0a	124.7ª	68.0 98.0 <sup>a</sup> 156.0 <sup>a</sup>
Upper Carnation	C.T.	0 II III		32.6 77.5	30.0 <sup>a</sup> 81.8 118.3	31.8 91.1 114.5 143.4	38.7 75.7 113.8 143.5 <sup>a</sup>	38.4 74.7 109.9 158.5	38.6 84.0 116.2 164.0 <sup>a</sup>	43.5 85.0 111.7 128.0 <sup>8</sup>	44.7 88.8 117.7 <sup>a</sup>	48.8 88.0 131.0 157.08	46.0 88.1 126.8
Tributary "C"	C.T.	II III			38.4 75.3 111.3	43.0 83.3 108.9 159.0 <sup>a</sup>	47.2 83.9 117.5 <sup>a</sup> 156.5 <sup>a</sup>	45.9 90.9 115.5	44.7 86.0 123.6	46.2 82.5 114.0 <sup>a</sup> 132.0 <sup>a</sup>	53.8 86.6 136.5ª	59.3 <sup>a</sup> 92.2 122.0 <sup>a</sup>	62.4 105.0ª 121.0
Tributary	Coho	. : O			50.8	47.6	49.2 76.4	52.0 79.3	49.0 72.3	**** /**** 	56.6 82.3ª	63.7 81.2	51.6 77.0
Jseless Creek	Coho	OI			48.7 78.5	66.2ª 79.7ª	57.5	58.7 84.0ª	50.9	63.7	60.9	58.7	55.9
	C.T.	III II			28.3 <sup>a</sup> 92.8 126.7 <sup>a</sup> 181.0 <sup>a</sup>	49.3 99.5 163.3 <sup>a</sup>	42.4 85.3 131.7 <sup>a</sup> 161.7 <sup>a</sup>	39.3 84.8 119.4 174.0a	77.0 <sup>a</sup> 101.0 <sup>a</sup> 157.5 <sup>a</sup>	41.7a 79.9 116.0a 161.0a	44.2 88.8 128.3 <sup>a</sup>	45.0 86.7 <sup>a</sup> 102.0 <sup>a</sup>	41.0 85.6 118.0 <sup>a</sup>
Fredericks Creek	Coho	0	o	53.4	53.6 81.8	55.6 74.6	56.9	65.9 84.3ª	52.8 79.0ª	64.6	64.2	.64.1	
* . t. t.	R.B.T.	OI		<b>5.</b> 7	42.3 109.0 <sup>a</sup>	****		54.7	52.8	52.3		52.2	
		II								99.0ª			

Table 28 (cont'd)

Location	Species	Age	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
South Pachena	Coho	0		55.6	51.9 90.4	50.6 79.9	51.0 77.1	56.6 88.3	50.2 78.1	62.1 83.5	59.9 95.6	48.5	52.9 86.8
	R.B.T.	0 1		48.8 94.1 132.3	44.4 82.6 134.7	47.9 103.5a	43.7 96.7	49.5	46.2 80.5ª	52.8 90.0ª	52.6 107.0 <sup>8</sup>	48.3	46.3 107.5 144.0 <sup>a</sup>
Ritherdon Creek	C.T.	III		56.5 90.7 106.1 131.1 <sup>a</sup>	48.5 84.5 124.8	57.0 101.8 153.5a	52.6 92.7 133.7 171.0a	56.7 95.4 133.1	47.8 81.6 111.7 139.0 <sup>a</sup>	54.9 96.2 121.5 152.0 <sup>a</sup>	56.0 98.8 129.0 <sup>a</sup> 171.0 <sup>a</sup>	52.9 107.0 <sup>a</sup> 126.8 185.0 <sup>a</sup>	54.5 106.8 168.0 <sup>a</sup> 200.0 <sup>a</sup>

a Four or less fish in sample.

Table 29. Summary of lipid content of juvenile salmonids in Cannation Creek.

		- 1			Len	gth	Weight	(gm)	Lipid	(gm)
Date	Species	Location	Size	n	x	8	x	8	x	9
March 8/73	Coho	Lower	≥66 <62	10	71.90 53.44	6.71	3.900 1.622	1.360	.07711	.02949
ar.			all	19	63.16	11.14	2,821	1.551	.05759	.02983
April 18/73	Coho	Lower	≥70 ≤65	11 7	85.36 57.43	15.37	7,685 2,137	4.507	.11166	.08508
A. 194			all	18		18.57	5.527	4.450	.08149	.07778
Sept. 17/73	Coho	II	≥72 <60	9	76.25 52.22	5.97	5.198 1.702	1.583	.11962	.08037
	•		a11	13	59.62	13.11	2.778	1.940	.06076	.05813
	Rainbow	II	≥82 49	4	94.75	13.65	8.600	4.085	.15175	.07899
*			all	5	85.60	23.63	7.088	4.893	.12917	.08502
	Coho	VIII	≥71	5	82.40	12.68	6.562	3.286	.19375	.12149
			<61 all	11 16	48.55	6.62 18.30	1.195 2.872	.531 3.109	.03409	.01378
	Rainbow	VIII	87	1	87	5 · 4	3.89	4.1.1.	.10653	
) at		* * * *	<44 all	10 11	40.40	3.13	.516 .823	1.025	.01807	.00317

Table 29. Summary of lipid content of juvenile coho in Carnation Creek.

Year	Date	Location	Size	n	Lengt	h (mm)	Weigh	t (g)	Lipi	d (g)
					ž.	S	2	S	Ř	S
1974	February 11	200 m	≥5 g	10	81.60	8.09	7.159	2,281	.4640	.2547
		150	<5 g	30	60.30	7.93	2.681	1.050	.0876	.0529
1	* 3		ALL	40	65.62	12.21	3.800	2.432	.1817	.2104
1974	April 20	Fence	≥5 g	7	85.86	5.93	6.734	1.370	.1199	.0173
1	A - AF -	į.	<5 g	13	70.31	7.20	3.558	1.142	.0629	.0173
	IN.		ALL	.20	75.75	10.09	4.670	1.957	.0829	.0331
1974	May 20	Fence	≥5 g	7	106.43	14.77	13.140	4.622	.4160	.3130
			<5 g ⋅	3	74.67	6.51	3.923	.988	.0791	.0264
			ALL	10	96.90	19.76	10.375	5.855	.3149	.3031
1974	September 16	II	≥5 g	3	82.67	5.69	6.133	1.032	.1174	.0519
	41 2		<5 g	. 7	59.86	8.88	2.363	.977	.0365	,0141
			ALL o	10	66.70	13.46	3,494	2.047	.0608	.0479
1974	October 22	200 m	<5 g	10	57.70	10.73	2.141	1.111	.0399	.0316
1975	January 16	200 m	≥5 g	. 1	74		5.30	-	.1214	-
			<5 g	13	59.08	11.27	2,256	1,239	.0456	.0244
			ALL	14	60.14	11.54	2.473	1.442	.0510	.0300
1975	March 10	Fence	≥5 g	2	84.0	2.83	5.77	. 792	.0823	.0000
			<5 g	13	56,92	10.14	2.16	1.133	.0347	.0200
			ALL	15	60.53	13.39	2.64	1.661	.0411	.0244

Table 29. Summary of lipid contents of juvenile coho in Carnation Creek.

Year	Date	Location	Size (gm)	n	Length (mm)		Weight (gm)		Lipid/gram of fish	
					×	S	x	S	X mg/gm	S
1075				4.	0/ 5	16 00	0.02	4.42	14.65	1 02
1975	April 24	Fence	≥5		94.5	16.90	9.02	1.26		1.93
* 1			S	5	66.0	9.97			17.18	4.95
			A11	9	78.7	19.56	5.72	4.23	16.06	3.93
1975	May 30	Fence	≥5	. 7	95.9	10.99	8.85	2.92	14.41	2.20
			3	4	67.2	4.99	3.03	.67	20.50	7.06
			A11	11	85.5	16.98	6.73	3.73	16.63	5.22
1975	Sept. 18	II	≥5	3	86.3	5.69	7.91	2.26	32.87	9.32
2313	Sept. 10		3	7	58.0	10.13		1.27	16.04	3.56
	* * * * * * * * * * * * * * * * * * * *		A11	10	66.5	16.22	3.91	3.14	21.09	9.68
	7 1 15 No 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				and a standard or one	to taransamal	distance			
1975	Nov. 19	200 m	≥5		81.5				31.62	
			3	10	64.8	5.96	3.34	.80	30.87	4.61
			All	14	69.6	9.74	4.23	1.62	31.09	4.37
1976	Feb. 2	200 m	≥5	-		-	-			-
			.<5	12	65.2	6.98	2.80	. 76	22.52	4.35
			A11	12	65.2	6.98	2.80	. 76	22.52	4.35
0.76										
1976	April 5	Fence	≥5	2	83.5	2.12	5.83	.16	15.15	1.91
			<5	11	70.8	4.73	3.43	.83	14.00	1.63
			A11	13	72.8	6.46	3.80	1.18	14.18	1.64
1976	May 20	Fence	<5	7	97.7	15.12	9.86	4.36	15.46	1.77
			3	3	67.0	6.56	2.92	.80	14.60	2.52
			A11	10	89.1	19.10	7.78	4.91	15.21	1.92
1976	Sept. 20	II	≥5	2	78.5	2.12	5.33	.24	14.50	.42
1970	Sept. 20	11	25	8	57.0	10.35	2.20	1.14	16.02	2.66
			A11	10	61.3	12.88	2.82	1.66	15.72	2.43
								1.00	13.72	2.43
1976	Nov. 9	200 m	≥5	2	75.5	2.12	5.77	.08	32.75	17.32
		P	<5	8	55.6	9.77	2.10	1.33	17.45	4.75
			All	10	59.6	12.04	2.84	1.94	20.51	9.62
1976	Dec. 21	200 m	>5	2	89.5	13,43	7.50	2.53	27.60	3.54
	, .		3	8	59.7	8.89	2.55	1.23	26.12	4.10
			A11	10	65.7	15.46	3.54	2.50	26.42	3.85
		200								0.00
1977	March 25	200 m	≥5	-			-	-	-	
			<5	11	58.2	5.31	2.31	.71	21.53	2.19
			A11	11	58.2	5.31	2.31	.71	21.53	2.19
1977	April 12	Fence	≥5	5	85.0	5.00	6.58	1.71	17.96	6.23
	•		₹5 .	5	69.2	7.53	3.49	1.14	13.74	2.09
			All	10	77.1	10.28	5.03	2.13	15.85	4.91

Table 29 (cont'd)

. 1	Date	Location	Size (gm)	n	Length (mm)		Weight (gm)		Lipid/gram of fish	
Year					X.	S	x	S	X mg/gm	* S
1977	May 1	Fence	≥5.	8	96.2	10.75	8.82	2.98	14.25	1.41
	-	1. 11 : 5 :	<5	2	75.5	3.54	4.56	.57	15.25	.35
			A11	10	92.1	12.96	7.97	3.19	14.45	1.32
1977	Sept. 29	200 m	≥5	4	81.5	3.42	6.25	1.00	30.07	5.18
			<5	7	67.4	7.70	3.46	1.08	19.96	6.16
	*		A11	11	72.5	9.46	4.47	1.73	23.64	7.54
1977	Dec. 2	200 m	≥5	6	79.3	3.67	6.46	. 75	28.12	6.30
			<5	4	70.5	5.20	4.31	.35	33.30	2.67
			A11	10	75.8	6.11	5.60	1.26	30.19	5.62

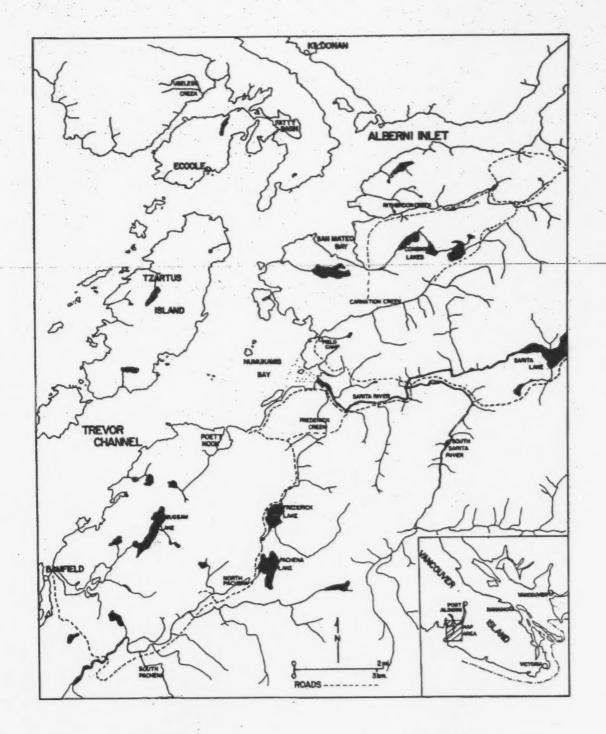
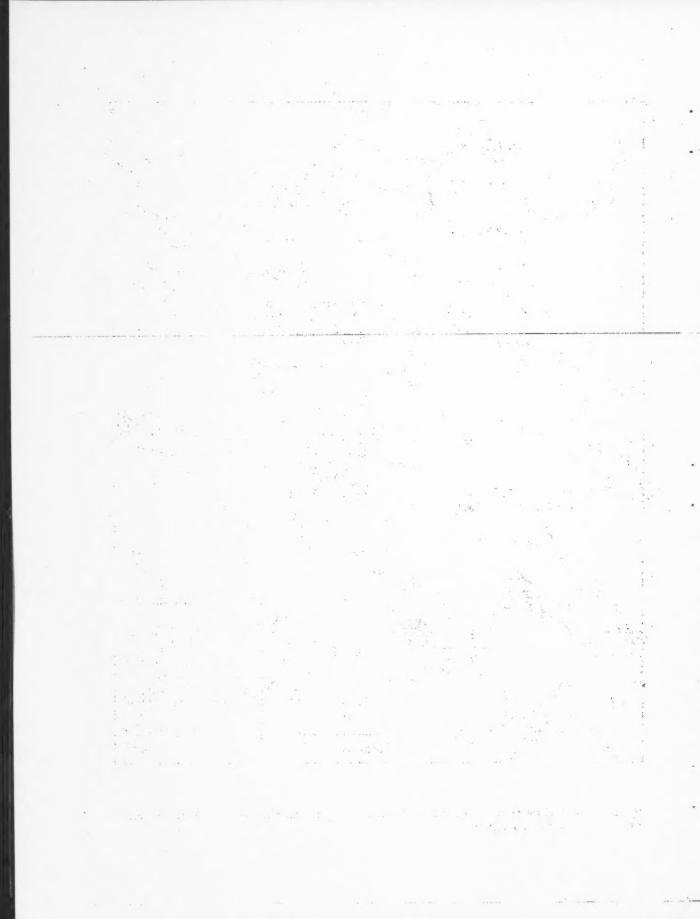


Fig. 1. Map showing the location of study streams in the Barkley Sound area. Only main roads are shown.



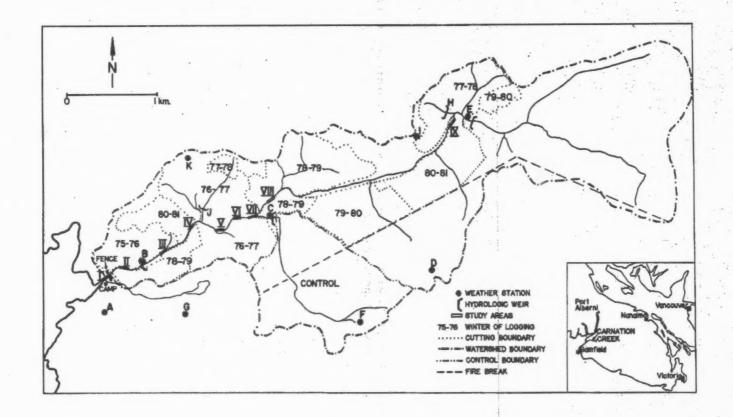


Fig. 2. Carnation Creek Watershed showing the main channel and tributaries; location of hydrometeorological stations, fish counting fence, stream study sections and clearcuts.

Fig. 3. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature and discharge, 1971.

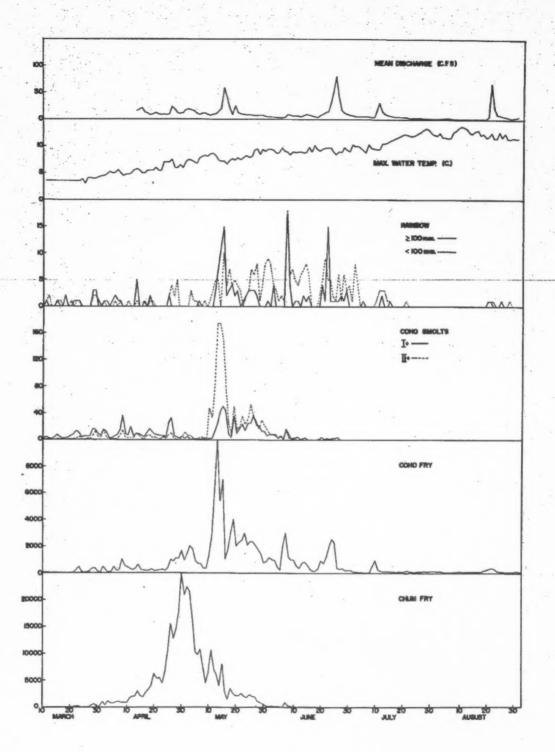


Fig. 4. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature and discharge, 1972.

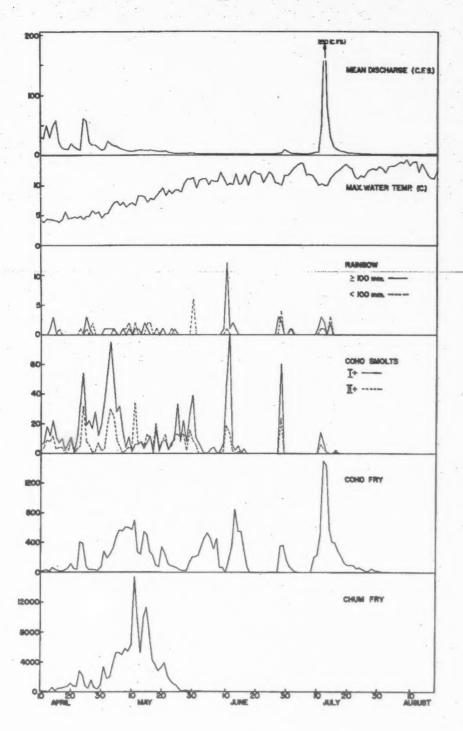
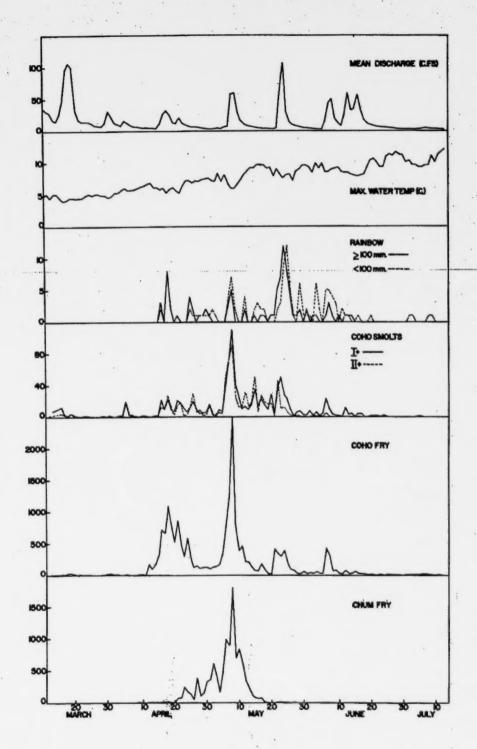


Fig. 5. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature and discharge, 1973.





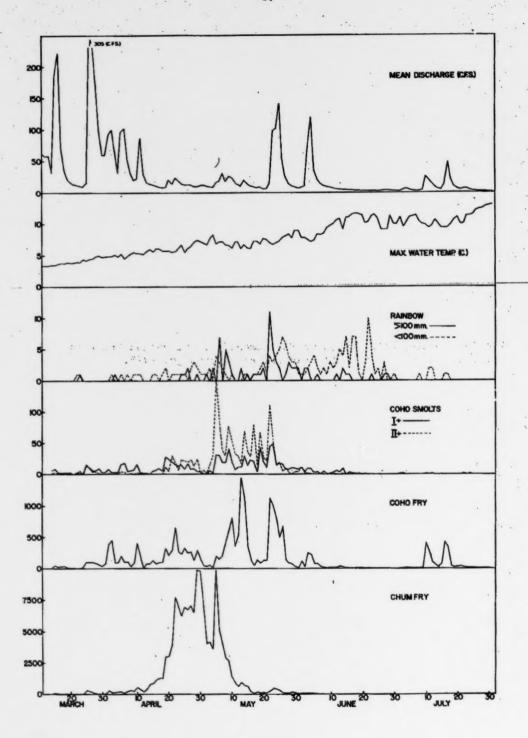


Fig. 6. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature and discharge, 1974.

Fig. 7. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature, and discharge, 1975.

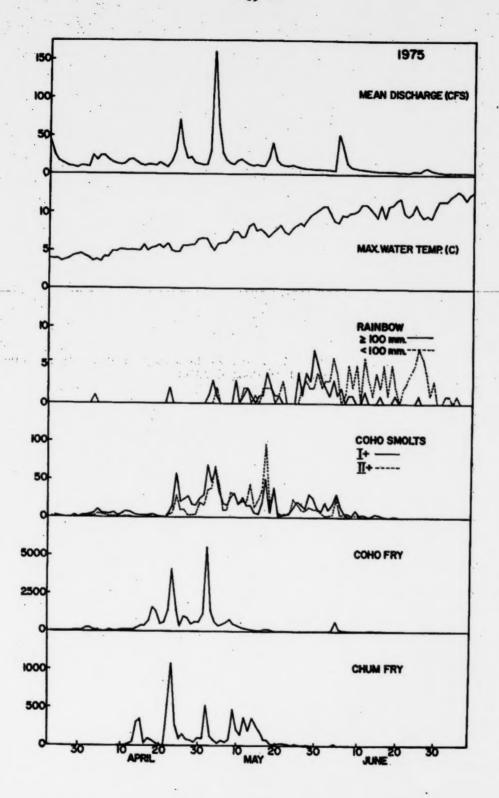


Fig. 8. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature, and discharge, 1976.

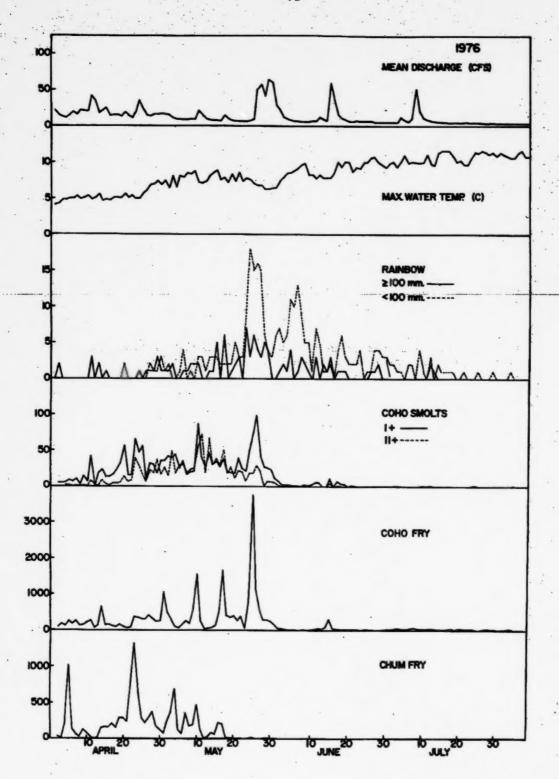
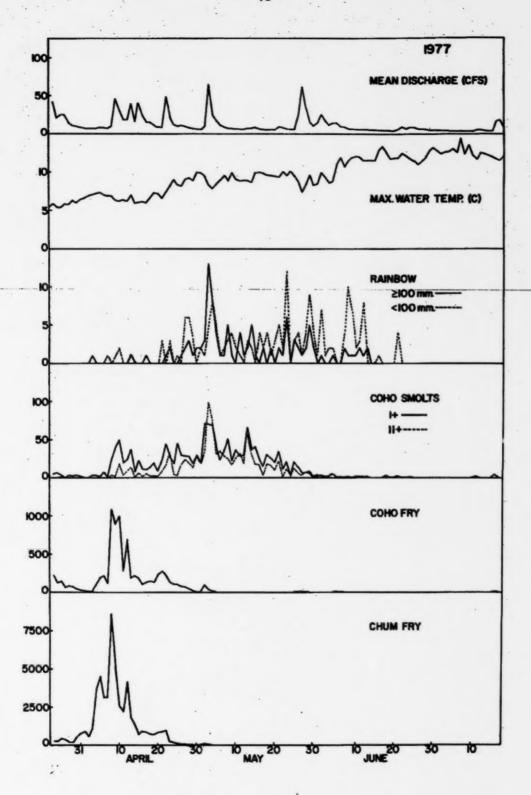
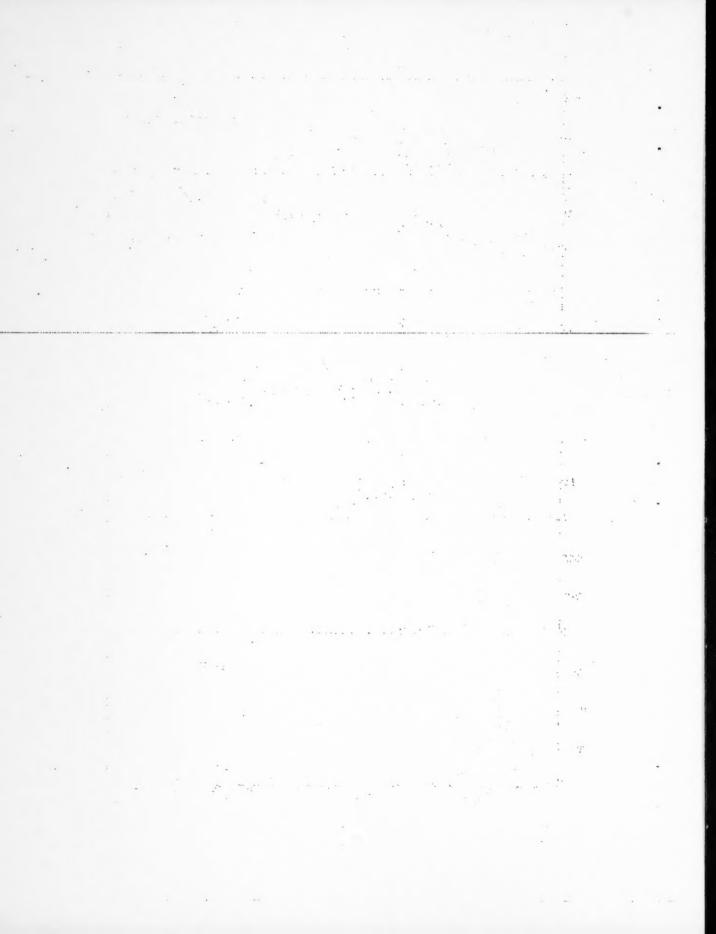


Fig. 9. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature, and discharge, 1977.





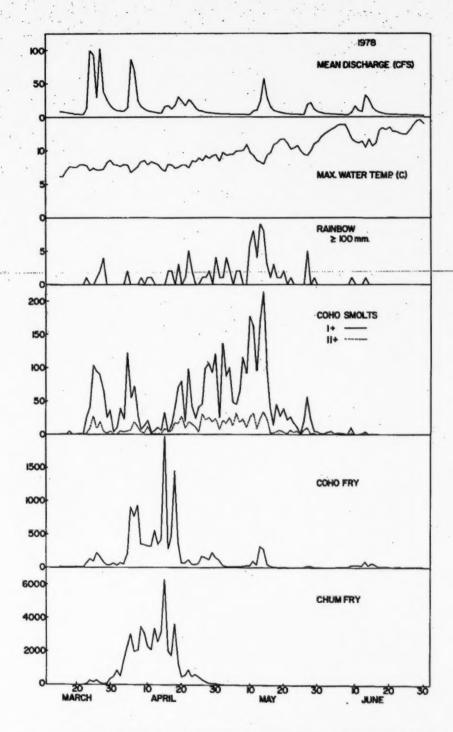


Fig. 10. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature and discharge, 1978.

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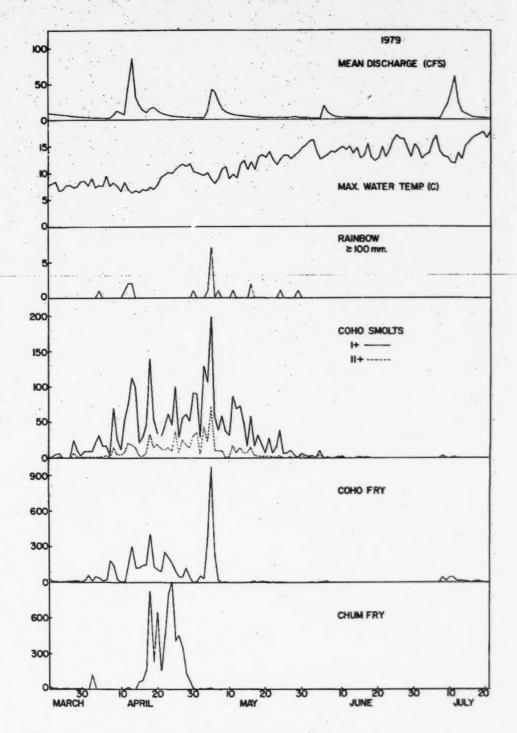


Fig. 11. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature, and discharge, 1979.

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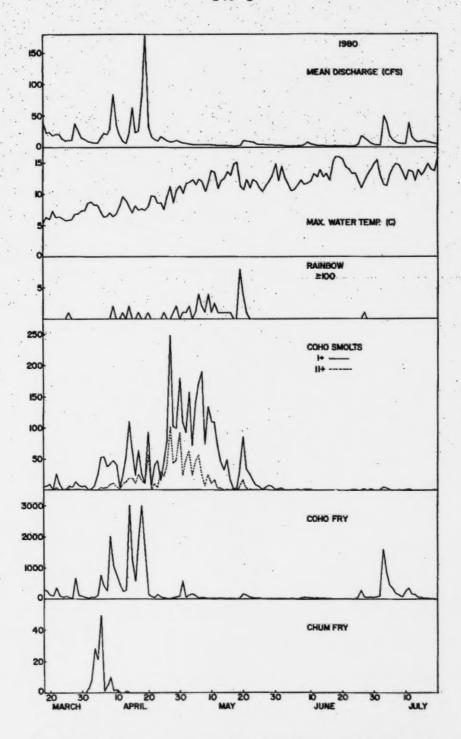


Fig. 12. Outmigration of juvenile salmonids in Carnation Creek in relation to date, water temperature and discharge, 1980.

e to them, to the 1 and the following strains and an experience and the second second



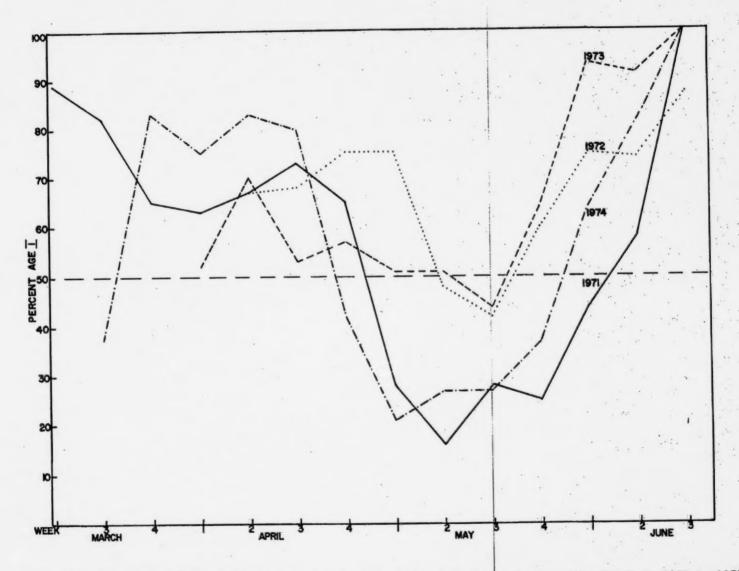


Fig. 13. Percentage of age I fish in the total coho smolt outmigration in Carnation Creek in 1971 to 1974.



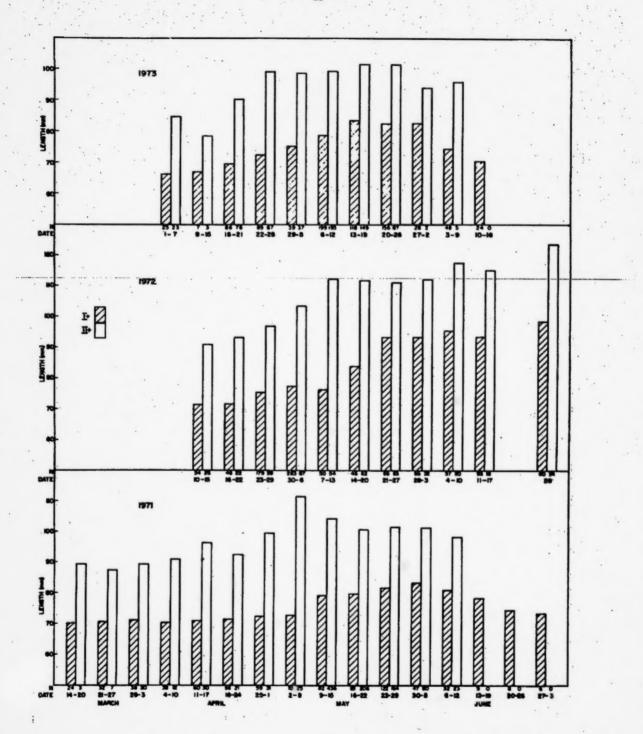
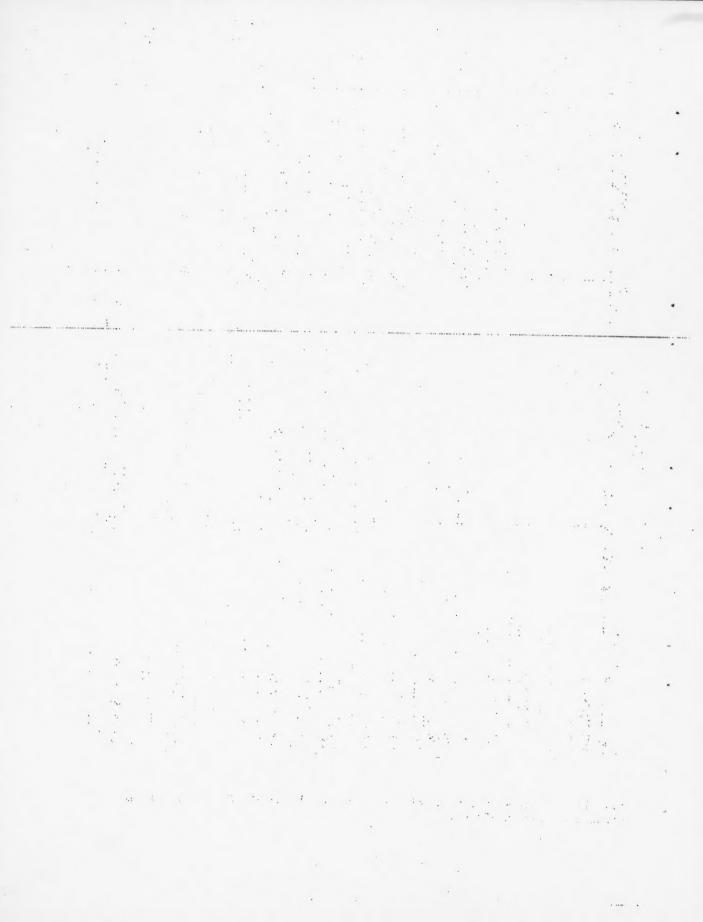


Fig. 14. Weekly mean lengths of age I and II coho smolts (> 59 mm) leaving Carnation Creek in 1971-73.



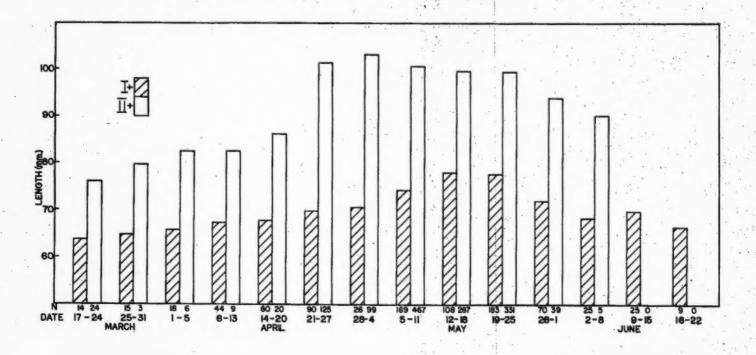
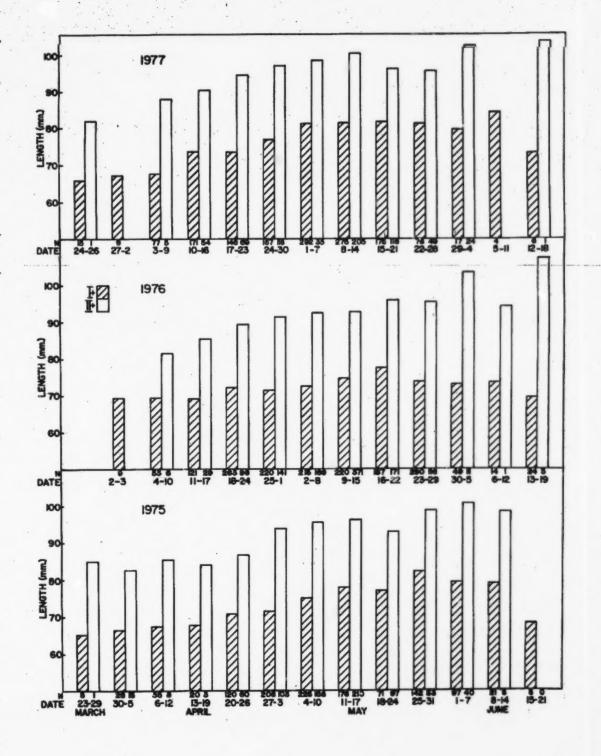
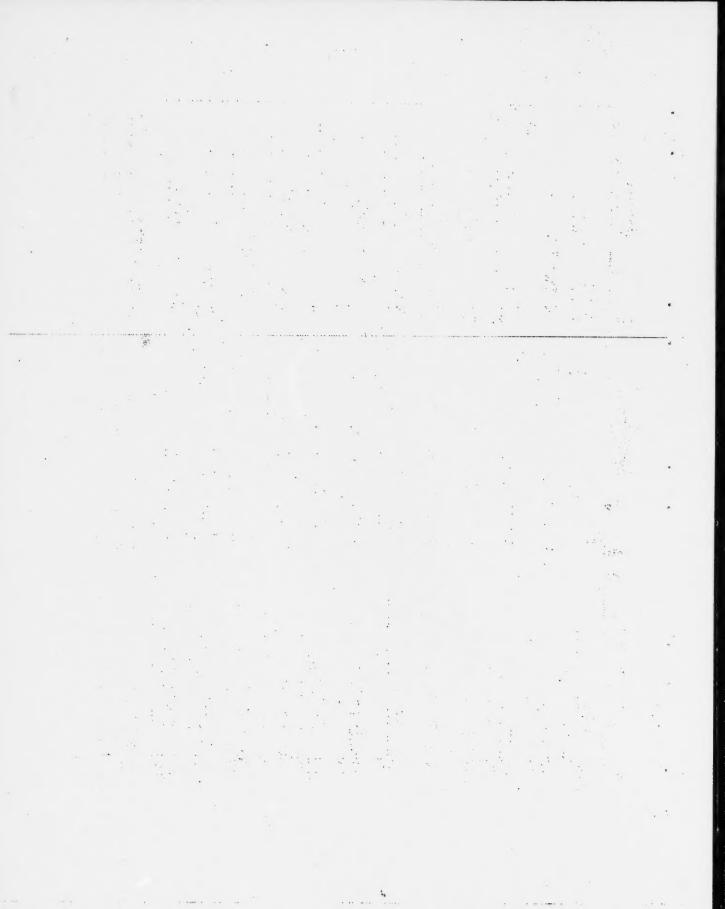


Fig. 15. Weekly mean lengths of age I and II coho smolts (> 59 mm) leaving Carnation Creek in 1974. (Sample size under bars.)

Fig. 16. Weekly mean lengths of age I and II coho smolts (> 59 mm) leaving Carnation Creek in 1975, 1976, and 1977. (Sample size under bars.)





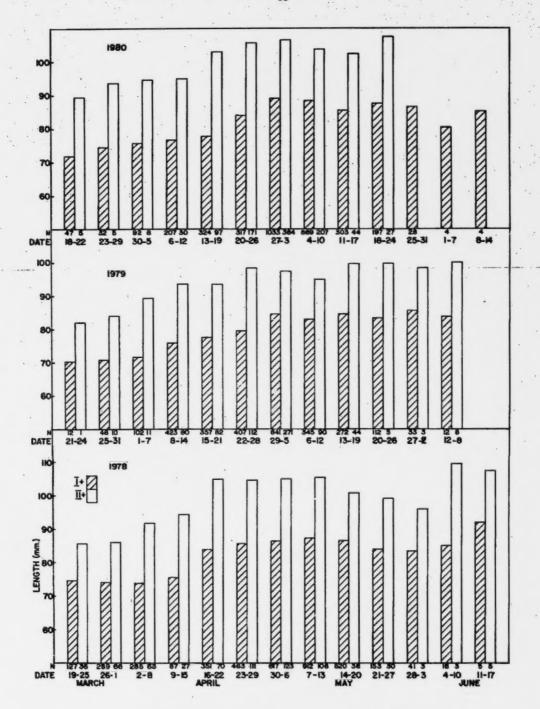


Fig. 17. Weekly mean lengths of age I and II coho smolts (> 59 mm) leaving Carnation Creek in 1978, 1979 and 1980. (Sample size under bars.)



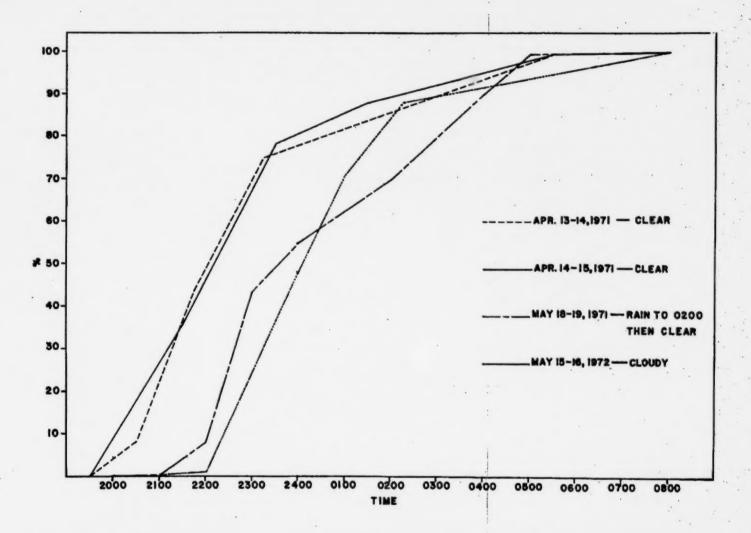
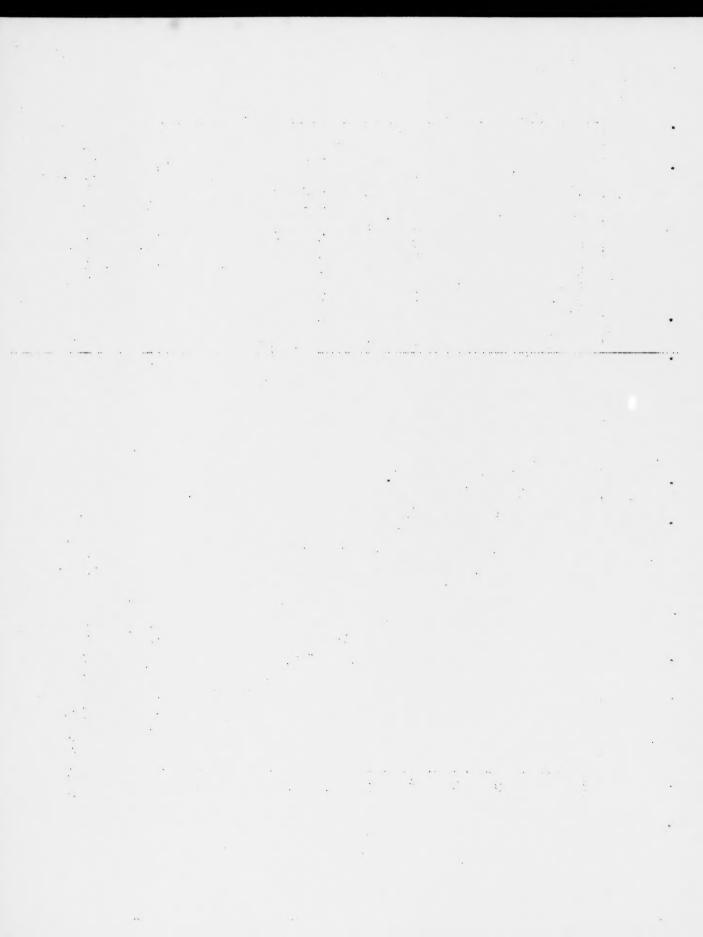


Fig. 18. Accumulative chum fry catches in percent for 4 complete nights of downstream trapping in Carnation Creek.



SECTION	AGE	AREA (	SQ.H) RIFFLE	SECT LEN (H)		С	R	POP.	VAR.	95 PEI CONF. LOWER	LIMITS	MEAN WEIGHT (GH)	A-10-50	WETTED	FISH (SO RIFFLE	POOL
AUG. 6-8	1/70												-1			
II	o T	690.7	188.4	150	53	60	3	824	126737.0 576.0	111.5	1535.5	7.00	51.0 75.8	14.39	0.23 3.92 0.15	10.46
III	Õ	689.8	205.1	150	123	64	5	1343	233996.0	375.9	2310.8	1.84	75.8 51.0 75.8	0.51 34.49	0.15	0.36
I	0	398.6	121.0	150	88	116	15	824 48 1343 20 651 35	80.0 21507.9	357.5	744.1	1.57	47.9	0.61	0.19	0.43
UIII	I	666.5	378.9	140	64	107	12	35 540	291.7 18321.4	269.3	810.7	7.00	75.8 48.4	11.39	3.46 0.70	7.93
	Ĭ	00010	378.9		6	7	12	540 19	54.4	3.9	33.4	7.00	75.8	35.71	20.30	15.41
ALL	0	2445.6	893.4	610	328	347	35	3180	245086.0		4170.5		50.0		0.28	0.49
	I				33	24	5	142	2179.0	48.3	235.0	7.00	75.8	17.26	6.31	10.96
are and that the first fact operation			ETTED						001	WETTED		TTED	07	FFLE	PO	101
SECTION	AGE	FISH/	FISH	1/	FISH/ SQ. M	FI	SH/	FISH/ SQ. H	FISH/ ACRE		T GM/	LB/ ACRE	GH/ SQ. H	LB/	GM/ SQ. M	LB/ ACRE
AUG. 6-8	/70															
II	0	1.19	4825		4.37		89.5	1.64	6634.9	1515.2	2.19	19.57	8.04	71.74	3.02	26.91
III	Ô	0.07	7881.	.2	0.25	265 265	06.4	2.77	386.7 11216.2	336.0 2471.7	0.49 3.58 0.20	31.96	8.04 1.78 12.05 0.68	15.91	5.10 0.29	45.49
VI	0	0.03			0.10		94.6	2.34	167.0 9487.9	140.0	2.56	1.81	8.44	6.09 75.32	3.68	32.83
VIII	Ĭ	0.09	. 355	. 4	0.29	11	70.6	0.13	510.2 7598.7	245.0 901.8	0.61	5.48	2.02	18.06	3.14	7.87
VIII	Ĭ	0.03			1.43		99.4	0.06	262.7	130.7	0.20	1.75	0.34	3.08		4.05
ALL	0	1.30	5262.	8	3.56	144	06.5	2.05	8292.0	5598.4	2.29	20.42	6.27			.32.17
	1	0.06	234	. 4	0.16	6	41.7	0.09	369.4	991.7	0.41	3.62	1.11	9.90	0.64	5.70

SECTION	AGE	AREA (S	SQ.M)	SECT LEN (N)		c	R	POP.	VAR.	95 PER CONF. LOWER	CENT LIMITS UPPER	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	WETTED	FISH (SG RIFFLE	H) POOL
SEP. 14-	16/70															
II ·	Q	647.3	188.4	150	106	91	15	615	18394.2 252.0	344.0		6.35	54.4 77.7	1.05	4.49	10.93
III	ō	646.4	205.1	150	145	156	27	819	18988.1	543.0	1094.2	2.22	54.5	0.79	0.25	0.54
VI	0	371.5	121.0	150	121	101	17	45 691	20715.7	403.5	91.5	7.40	50.6	14.36	4.56 0.18	9.81
VIII	0 I	624.6	378.9	160	148	131	29	656	10713.8	448.6		1,76	79.1 50.3	0.95	3.67	7.59
	1				2	4	1	15	45.0	1.6	28.4	6.20	76.7	41.64	25.26	16.38
ALL	0	2289.8	893.4	610	520 41	479	38	2810 158	71461.3 2021.3	2275.2	3344.5 247.4	2.06	52.5 78.9	0.81	0.32 5.67	0.50 8.87
SECTION	AGE	FISH/ SQ. M	FISH ACRE		FISH/ SQ. M	FFLE FI AC	SH/ RE	FISH/ SQ. M	FISH/ ACRE	WETTED TOTAL WI (GM)	GM/	LB/ ACRE	GM/ SQ. M	FFLE LB/ ACRE	. GH/.	LB/ ACRE
SEP. 14-	16/70						:	******								
11	ō	0.95	3846.	6	3.27		16.1	1.34	5425.8	1439.7	2.22	19.84	7.64	68-16	3.14	27.98
III	Ö	0.06	262. 5125.	4	0.22	161	02.2 53.3	0.09	7507.5	266.7	2.81	3.68 25.08	1.42	79.04	0.58 4.12	5.18 36.73
νī	Ö	1.86	281. 7531.	7	0.22 5.71	. 8	87.9 22.5	2.76	412.7	333.0	2.81 0.52 3.52	31.37	1.62	94.48		46.53
JIII	I	0.09	359.	5	0.27	11	03.7	0.13	533.1	217.8	0.59	5.23	1.80	16.06	0.87	7.76
AIII	Ĭ	1.05	42 <b>4</b> 7.		0.04		02.4 60.2	0.06	10798.6 247.1	1153.9	1.85	16.48	3.05	27.16	4.70	41.89
	0	1.23	4966.	-	3.15	127	28.5	2.01	8143.5	5777.3	2,52	22.51	6.47	57.68	4.14	74 .00

								-								
SECTION	AGE	AREA (	SQ.M)	LEN (M)		C	R	POP.	VAR.	95 PER CONF.	LIMITS UPPER	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ	.M)
				,,								,				
JUNE 16/	71		* *				•					1.1				
II	0	486.0	59.0	100	572	774 .	421	1052	1.192.4	983.2	1121.4	0.70	40.0	0.46	0.06	0.4
	I				. 8	16	6	. 22	35.1	10.0		4.33	65.8	22.24	2.70	19.5
III	0	407.0	19.0	85	530	577	243	1258	3731.8	1135.7	1380.0	0.70	40.0	0.32	0.02	0.3
	I				5	14	0	90	3780.0	-33.0	213.0	4.33	65.8	4.52	0.21	4.3
IV .	0	582.0	47.0	100	725	957	433	1603	3229.2	1488.9	1716.2	0.70	40.0	0.36	0.03	0.3
	1				. 8	7:	. 1	36	324.0	0.0	72.0	4.33	65.8	16: 17	1.31	14.8
VI	0	324.0	46.0	110	486	694	232	1453	5994.6	1297.8	1607.5	0.70	40.0	0.22	0.03	0.1
	I				3	5	1	12	32.0	0.7	23.3	4.33	65.8	27.00	3.83	23.1
VIII	0	329.0	78.0	. 90	289	249	117	614	1674.9	532.6	696.3	0.70	40.0	0.54	0.13	0.4
	1				4	7	. 3	10	10.0	3.7	16.3	4.33	65.8	32.90	7.80	25,1
ALL '	0	2128.0	249.0	485	2602	3251	1446	5850	13118.1	5620.9	6079.1	0.70	40.0	0.36	0.04	0.3
	I .				28	49	11	121		62.4		4.33	65.8	17.61	2.06.	15.5
		W	ETTED		RI	FFLE		p	OOL	WETTED	WET	TTED	RII	FFLE	PO	OL .
		FISH/	FISH	/	FISH/	FI	SH/	FISH/	FISH/	TOTAL W	T GM/	LB/	GM/	LB/	GM/	LB/
SECTION	AGE	SQ. M														ACR
		5Q. M	ACRE	* 5	5Q. M	. AC	RE	SQ. M	ACRE	(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	
JUNE 16/	71.		ACRE	•	5Q. M	AC	RE	SQ. M	ACRE		SQ. M	ACRE	SQ. M	ACRE	SQ. M	
	71.			-						(GM)	• .	* ,	•			•
		2.17 0.04	8762.	8	17.84	721	81.4	2.46	9973.5	(GM)	1.52	13.52	12.49	111.37	1.73	15.3
11	0	2.17	8762.1 182.0	8	17.84	721 14	81.4	2.46	9973.5 207.2	736.6 94.6	1.52	13.52	12.49	111.37	1.73	15.3
11	0	2.17 0.04 3.09	8762.1 182.0 12507.1	3 5 (	17.84 0.37 56.20	721 14 2679	B1.4 99.3 24.0	2.46 0.05 3.24	9973.5 207.2 13120.0	736.6 94.6 880.5	1.52 0.19 2.16	13.52 1.74 19.30	12.49 1.60 46.34	111.37 14.31 413.37	1.73 0.22 2.27	15.3
111	0 1 0	2.17	8762.1 182.0 12507.1	B 5 5	17.84	721 14 2679	81.4 99.3 24.0	2.46 0.05 3.24 0.23	9973.5 207.2 13120.0 938.7	736.6 94.6 880.5 389.7	1.52 0.19 2.16 0.96	13.52 1.74 19.30 8.54	12.49 1.60 46.34 20.51	111.37	1.73 0.22 2.27 1.00	15.3 1.9 20.2 8.9
111 111	0 1	2.17 0.04 3.09 0.22	8762.1 182.0 12507.1	B 5 9	17.84 0.37 56.20 4.74	721 14 2679 191 1379	81.4 99.3 24.0	2.46 0.05 3.24	9973.5 207.2 13120.0	736.6 94.6 880.5	1.52 0.19 2.16 0.96 1.93	13.52 1.74 19.30	12.49 1.60 46.34	111.37 14.31 413.37 182.95	1.73 0.22 2.27 1.00 2.10	15.3 1.9 20.2 8.9 18.7
II III	0 1 0	2.17 0.04 3.09 0.22 2.75	8762.1 182.0 12507.1 894.1	B 5 9 5 3	17.84 0.37 56.20 4.74 34.10	721 14 2679 191 1379	81.4 99.3 24.0 70.0 90.0	2.46 0.05 3.24 0.23 3.00	9973.5 207.2 13120.0 938.7 12122.5	736.6 94.6 880.5 389.7 1121.8	1.52 0.19 2.16 0.96	13.52 1.74 19.30 8.54 17.19	12.49 1.60 46.34 20.51 23.87	111.37 14.31 413.37 182.95 212.90	1.73 0.22 2.27 1.00 2.10 0.29	15.3 1.9 20.2 8.9 18.7 2.6
11 111 17	0 1	2.17 0.04 3.09 0.22 2.75 0.06	8762.1 182.0 12507.1 894.1 11143.1 250.1	8 0 5 9 5 3 3	17.84 0.37 56.20 4.74 34.10 0.77	721 14 2679 191 1379 30 1278	81.4 99.3 24.0 70.0 90.0	2.46 0.05 3.24 0.23 3.00 0.07	9973.5 207.2 13120.0 938.7 12122.5 272.3	736.6 94.6 880.5 389.7 1121.8 155.9	1.52 0.19 2.16 0.96 1.93 0.27 3.14	13.52 1.74 19.30 8.54 17.19 2.39	12.49 1.60 46.34 20.51 23.87 3.32	111.37 14.31 413.37 182.95 212.90 29.58	1.73 0.22 2.27 1.00 2.10 0.29 3.66	15.3 1.9 20.2 8.9 18.7 2.6 32.6
11 111 17	0 1	2.17 0.04 3.09 0.22 2.75 0.06 4.48	8762.1 182.0 12507.1 894.1 11143.1 250.1	8 0 5 5 6 3 5 5	17.84 0.37 56.20 4.74 34.10 0.77	721 14 2679 191 1379 30 1278	81.4 99.3 24.0 70.0 90.0 99.8	2.46 0.05 3.24 0.23 3.00 0.07 5.23	9973.5 207.2 13120.0 938.7 12122.5 272.3 21146.9	736.6 94.6 880.5 389.7 1121.8 155.9 1016.8	1.52 0.19 2.16 0.96 1.93 0.27	13.52 1.74 19.30 8.54 17.19 2.39 27.99	12.49 1.60 46.34 20.51 23.87 3.32 22.11	111.37 14.31 413.37 182.95 212.90 29.58 197.18	1.73 0.22 2.27 1.00 2.10 0.29 3.66 0.19	15.3 1.9 20.2 8.9 18.7 2.6 32.6
11 111 17	0 1 0 1	2.17 0.04 3.09 0.22 2.75 0.06 4.48 0.04	8762 .1 182 .0 12507 .1 894 .1 11143 .1 250 .1 18144 .1 149 .1	8 5 5 6 3 5 5 6 8	17.84 0.37 56.20 4.74 34.10 0.77 31.58 0.26	721 14 2679 191 1379 30 1278 10 318	81.4 99.3 24.0 70.0 90.0 99.8 01.0	2.46 0.05 3.24 0.23 3.00 0.07 5.23 0.04	9973.5 207.2 13120.0 938.7 12122.5 272.3 21146.9 174.7	736.6 94.6 880.5 389.7 1121.8 155.9 1016.8 52.0	1.52 0.19 2.16 0.96 1.93 0.27 3.14 0.16	13.52 1.74 19.30 8.54 17.19 2.39 27.99 1.43	12.49 1.60 46.34 20.51 23.87 3.32 22.11	111.37 .14.31 413.37 182.95 212.90 29.58 197.18	1.73 0.22 2.27 1.00 2.10 0.29 3.66 0.19	15.3 1.9 20.2 8.9 18.7 2.6 32.6 1.6
JUNE 16/	0 1 0 1 0 1	2.17 0.04 3.09 0.22 2.75 0.06 4.48 0.04	8762 .1 182 .0 12507 .1 894 .1 11143 .1 250 .1 18144 .1 149 .1	8 5 5 5 3 5 5 6 8 9	17.84 0.37 56.20 4.74 34.10 0.77 31.58 0.26 7.88	721 14 2679 191 1379 30 1278 10 318	81.4 99.3 24.0 70.0 90.0 99.8 01.0 55.7 78.3	2.46 0.05 3.24 0.23 3.00 0.07 5.23 0.04 2.45	9973.5 207.2 13120.0 938.7 12122.5 272.3 21146.9 174.7 9906.4	736.6 94.6 880.5 389.7 1121.8 155.9 1016.8 52.0 430.1	1.52 0.19 2.16 0.96 1.93 0.27 3.14 0.16	13.52 1.74 19.30 8.54 17.19 2.39 27.99 1.43 11.66	12.49 1.60 46.34 20.51 23.87 3.32 22.11 1.13 5.51	111.37 14.31 413.37 182.95 212.90 29.58 197.18 10.08 49.18	1.73 0.22 2.27 1.00 2.10 0.29 3.66 0.19 1.71 0.17	15.3 1.9 20.2 8.9 18.7 2.6 32.6 1.5 1.5

				SECT						95 PE	DCENT	MEAN	MEAN		6.	
		AREA (	SO M)	LEN	•			POP.	VAR.	CONF.	LIMITS	WEIGHT	LENGTH	AREA/	FISH (SQ	(M.
SECTION	AGE	WETTED		(M)	M.	С.	R	N	N	LOWER	UPPER	(GM)	(MM)	WETTED		POOL
AUG. 4/7	1								* *		.:.				*	
II	0 .	877.0	116.0	170	245	251	27	2214	150247.0	1438.8	2989.2	1.35	47.4	0:40	0.05	0.34
	I				23	16	. 6	58	249.8	26.7	89.9	5.85	73.1	15.05	1.99	13.06
III .	0	608.0	45.0	125	172	208	33	1063	27055.2	734.5	1392.4	1.35	47.4	0.57	0.04	0.53
	I				7	18	2	51	540.4	4.2		5.85	73.1	12.00	0.89	11.11
IV	0	580.0	47.0	100	147	149	27	793	17630.3	527.3		1.35	47.4	0.73	0.06	0.67
	I				9	14	2	50	500.0	5.3	94.7	5.85	73.1	11.60	0.94	10.66
VI	0	372.0	46.0	130	152	188	16	1701	146286.0	936.1	2465.9	1.35	47.4	0.22	0.03	0.19
	1	•			8	9	1	45	540.0	-1.5		5.85	73.1	8.27	1:02	7.24
VIII.	0	367.0	107.0	115	141	203	37 .	762	12125.0	542.1	982.5	1.35	47.4	0.48	0.14	0.34
	1				11	9	. 2	40	280.0	6.5	.73.5	5.85	73.1	9.18	2.67	6.50
ALL	0	2804.0	361.0	640	857	999	140	6085	223996.0	5128 S	7031.7	1.35	47.4	0.46	0.06	0.40
~~~	ĭ	2004.0	001.0	040	58	66	13	282	4204.4	152.7		5.85	73.1	9.93		8.65
SECTION	AGE	FISH/			FISH/	FI	SH/	FISH/	FISH/	WETTED TOTAL W	T GM/	LB/	GM/	LB/	· GM/	LB/
SECTION	AGE		FISH							TOTAL W						
SECTION AUG. 4/7		FISH/	FISH		FISH/	FI		FISH/	FISH/	TOTAL W	T GM/	LB/	GM/	LB/	· GM/	LB/
		FISH/	FISH ACRE		FISH/	AC		FISH/	FISH/	TOTAL W	T GM/	LB/	GM/	LB/	GM/ SQ. M	LB/
AUG. 4/7	1	FISH/ SQ. M	FISH ACRE	7.	FISH/ SQ. M	772	RE	FISH/ SQ. M	FISH/ ACRE	TOTAL W	T GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE
AUG. 4/7	1 0	FISH/ SQ. M	FISH ACRE 10216.	7.	FISH/ SQ. M	772 20	RE 41.9	FISH/ SQ. M	FISH/ ACRE	TOTAL W (GM)	T GM/ SQ M 3.41 0.39	ACRE	GM/ SQ. M	LB/ ACRE 229.84	GM/ SQ. M	18/ ACRE 35.03
AUG. 4/7	1 0 I	FISH/ SQ. M	FISH ACRE 10216 269 7078	7. 0 5	19.09 0.50	772 20 956	41.9 33.5	FISH/ SQ. M	11774.1 310.0	TOTAL W (GM)	T GM/ SQ M 3.41 0.39	30.40 3.47	GM/ SQ. M 25.77 2.94	229.84 26.22	GM/ SQ. M 3.93 0.45 2.55	35.03 4.00
AUG. 4/7	0 I 0	2.52 0.07	FISH ACRE 10216 269 7078 337	7. 0 5	19.09 0.50 23.63	772 20 956 45	41.9 33.5 38.8	FISH/ SQ. M 2.91 0.08 1.89	FISH/ ACRE 11774.1 310.0 7644.3	TOTAL W (GM) 2988.9 341.0 1435.6	3.41 0.39 2.36	30.40 3.47 21.06	GM/ SQ. M 25.77 2.94 31.90	229.84 26.22 .284.58	GM/ SQ. M 3.93 0.45 2.55 0.53	35.03 4.00 22.75
AUG. 4/7 II III	0 I 0 I	2.52 0.07 1.75	FISH ACRE 10216 269 7078 337 5532	7. 0 5 3	19.09 0.50 23.63	772 20 956 45 682	41.9 33.5 38.8 56.6	2.91 0.08 1.89 0.09	FISH/ ACRE 11774.1 310.0 7644.3 364.2	TOTAL W (GM)  2988.9 341.0 1435.6 296.4	3.41 0.39 2.36 0.49 1.85	30.40 3.47 21.06 4.35	GM/ SQ. M 25.77 2.94 31.90 6.59	229.84 26.22 .284.58 58.75	GM/ SQ. M 3.93 0.45 2.55 0.53 2.01	35.03 4.00 22.75 4.70 17.91 4.90
AUG. 4/7 II III	0 I 0 I	2.52 0.07 1.75 0.08 1.37	FISH ACRE 1 10216 269 7078 337 5532 348	7. 0 5 3 2	19.09 0.50 23.63 1.13	772 20 956 45 682	41.9 33.5 38.8 56.6 70.1	2.91 0.08 1.89 0.09 1.49	FISH/ ACRE 11774.1 310.0 7644.3 364.2 6020.1	2988.9 341.0 1435.6 296.4 1070.4	3.41 0.39 2.36 0.49 1.85	30.40 3.47 21.06 4.35 16.46	GM/ SQ. M 25.77 2.94 31.90 6.59 22.77	229.84 26.22 .284.58 58.75 203.14	GM/ SQ. M 3.93 0.45 2.55 0.53 2.01 0.55	35.03 4.00 22.75 4.70 17.91
AUG. 4/7 III III IV	1 0 1 0 1	FISH/ SQ. M 2.52 0.07 1.75 0.08 1.37 0.09	FISH ACRE 10216. 269. 7078. 337. 5532. 348. 18505.	7. 0 55 3 2 9 2	19.09 0.50 23.63 1.13 16.87	772 20 956 45 682 43	41.9 33.5 38.8 56.6 70.1	FISH/ SQ. M 2.91 0.08 1.89 0.09 1.49 0.09	11774.1 310.0 7644.3 364.2 6020.1 379.6	2988.9 341.0 1435.6 296.4 1070.4 292.5	3.41 0.39 2.36 0.49 1.85 0.50	30.40 30.40 3.47 21.06 4.35 16.46 4.50	GM/ SQ. M 25.77 2.94 31.90 6.59 22.77 6.22	229.84 26.22 284.58 58.75 203.14 55.51	3.93 0.45 2.55 0.53 2.01 0.55 7.04	35.03 4.00 22.75 4.70 17.91 4.90
AUG. 4/7 III III IV	1 0 1 0 1	2.52 0.07 1.75 0.08 1.37 0.09 4.57 0.12	FISH ACRE 10216 269 7078 337 5532 348 18505 489 8406	7. 0 5 3 2 9 2 6 2	19.09 0.50 23.63 1.13 16.87 1.06 96.98 0.98 7.12	772 20 956 45 682 43 1496 39 288	41.9 33.5 38.8 56.6 70.1 05.3 51.0 59.0 32.6	2.91 0.08 1.89 0.09 1.49 0.09 5.22	11774.1 310.0 7644.3 364.2 6020.1 379.6 21116.4	2988.9 341.0 1435.6 296.4 1070.4 282.5 2296.4	3.41 0.39 2.36 0.49 1.85 0.50 6.17	30.40 3.47 21.06 4.35 16.46 4.50 55.06	GM/ SQ. M 25.77 2.94 31.90 6.59 22.77 6.22 49.92 5.72 9.62	229.84 26.22 284.58 58.75 203.14 55.51 445.29 51.05 85.79	GM/ SQ. M 3.93 0.45 2.85 0.53 2.01 0.55 7.04 0.81 3.96	35.03 4.00 22.75 4.70 17:91 4.90 62.83 7.20 35.31
AUG. 4/7 III III IV	1 0 1 0 1 0 1	2.52 0.07 1.75 0.08 1.37 0.09 4.57	FISH ACRE 10216 269 7078 337 5532 348 18505 489 8406	7. 0 5 3 2 9 2 6 2	19.09 0.50 23.63 1.13 16.87 1.06 36.98 0.98	772 20 956 45 682 43 1496 39 288	41.9 33.5 38.8 56.6 70.1 05.3 51.0	FISH/ SQ. M 2.91 0.08 1.89 0.09 1.49 0.09 5.22 0.14	11774.1 310.0 7644.3 364.2 6020.1 379.6 21116.4 558.6	2988.9 341.0 1435.6 296.4 1070.4 292.5 2296.4 263.3	3.41 0.39 2.36 0.49 1.85 0.50 6.17 0.71 2.80	30.40 3.47 21.06 4.35 16.46 4.50 55.06 6.31	GM/ SQ. M 25.77 2.94 31.90 6.59 22.77 6.22 49.92 5.72	229.84 26.22 284.58 58.75 203.14 55.51 445.29	GM/ SQ. M 3.93 0.45 2.85 0.53 2.01 0.55 7.04 0.81 3.96	35.03 4.00 22.75 4.70 17.91 4.90 62.83 7.20
AUG. 4/7	1 0 1 0 1 0 1	2.52 0.07 1.75 0.08 1.37 0.09 4.57 0.12	FISH ACRE 10216. 269. 7078. 337. 5532. 348. 18505. 489. 8406. 441.	7. 0 5 3 2 9 2 6 2 1	19.09 0.50 23.63 1.13 16.87 1.06 96.98 0.98 7.12	772 20 956 45 682 43 1496 39 288 15	41.9 33.5 38.8 56.6 70.1 05.3 51.0 59.0 32.6	2.91 0.08 1.89 0.09 1.49 0.09 5.22 0.14 2.93	11774.1 310.0 7644.3 364.2 6020.1 379.6 21116.4 558.6 11865.7	2988.9 341.0 1435.6 296.4 1070.4 292.5 2296.4 263.3	3.41 0.39 2.36 0.49 1.85 0.50 6.17 0.71 2.80	30.40 3.47 21.06 4.35 16.46 4.50 55.06 6.31 25.01	GM/ SQ. M 25.77 2.94 31.90 6.59 22.77 6.22 49.92 5.72 9.62	229.84 26.22 284.58 58.75 203.14 55.51 445.29 51.05 85.79	GM/ SQ. M 3.93 0.45 2.85 0.53 2.01 0.55 7.04 0.81 3.96 0.90	35.03 4.00 22.75 4.70 17:91 4.90 62.83 7.20 35.31

	*			SECT						95 PE	RCENT	MEAN .	MEAN			
			SQ.M)	LEN	1			POP.	VAR.		LIMITS				FISH (SQ	
SECTION	AGE	WETTED	RIFFLE	(M)	м	С	R	N	N	LOWER	UPPER	(GM);	(WW)	WETTED	RIFFLE	POOL
SEP. 15-	16/71		. 4	,	7							*			164 A 164	
II	0	861.2	116.3	170	147	138	20	980	37030.4	594.8	1364.5	1.41	48.1	0.88	0.12	0.76
	1				22	17	2	138	3967.5	12.0		6.66	77.4	6.24	0.84	5.40
III	0	607.5	44.7	125	103	104	21	496	8467.6	312.3		1:41	48.1	1.22	0.09	1.13
	I				15	19	. 4	64	512.0	18.7		6.66	77.4	9.49	0.70	8.79
IV	0	579.7	46.8	100	90	41	14	255	2608.5	152:7	356.9		48.1	2.28	0.18	2.09
	1			:	13	9	4 :	28	65.3		44.2	6.66	77.4	20.70	1.67	19.03
VI	0 .	371.8	45.8	-130	79	57.	12	357	7060.0	188.9			48.1	1.04	0.13	0.91
	I.				10	. 4	2	18	33.6	6.7	29.9	6.66	77.4	20.28	2.50	17.78
VIII	0	367.4	107.0	115	84	80	18	362	5025.5	220.6			48.1	1.01	0.30	0.72
	I				. 6	2	0 .	21	147.0	-3.2		6.66	77.4	17.50	5.10	12.40
ALL	0	2787.6	360.6	640	503	420	85	2467	55676.5	1995.3	2939.2	1.41	48.1	1.13	0.15	0.98
	I				66	51	12	268	3847.7				77.4	.10.40	1.35	9.06
	,	W	ETTED		RI	FFLE		р	OOL	WETTED	VF.	TTED	DIE	FLE	PO	OL .
		FISH/	FISH	V F	ISH/	FI	SH/						GM/			
SECTION	AGE	FISH/			ISH/		SH/ RE	FISH/ SQ. M		TOTAL W		LB/		LB/ ACRE	GM/ SQ. M	LB/
								FISH/	FISH/	TOTAL W	T GM/	LB/	GM/	LB/	GM/	LB/
SEP. 15-	16/71	SQ. M	ACRE		Q. M	AC	RE	FISH/ SQ. M	FISH/ ACRE	TOTAL W	T GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE
SEP. 15-	16/71	50. M	4603.	5	8.42	340	RE	FISH/ SQ. M	FISH/ ACRE	TOTAL W (GM)	T GM/ SQ. M	ACRE	GM/ SQ. M.	LB/ ACRE	GM/ SQ. M	16.54
SEP. 15-	16/71 O	1.14 0.16	4603 . 648 .	5	8.42 1.19	340 48	88.7 02.1	1.32 0.19	FISH/ ACRE 5322.2 749.7	TOTAL W (GM)	T GM/ SQ. M	LB/ ACRE	GM/ SQ. M. 11.88 7.90	LB/ ACRE 105.94 70.49	GM/ SQ. M	16.54
SEP. 15-	16/71	1.14 0.16 0.82	4603. 648. 3306.	5 5 6	8.42 1.19	340 48 449	88.7 02.1 39.2	1.32 0.19 0.88	FISH/ ACRE 5322.2 749.7 3569.3	1381.3 919.1 699.9	1.60 1.07	14.31 9.52 10.28	GM/ SO. M 11.88 7.90 15.66	105.94 70.49 139.66	GM/ SQ. M 1.85 1.23 1.24	16.54 11.01
SEP. 15- II	16/71 O I O	1.14 0.16 0.82 0.11	4603. 648. 3306. 426.	5 5 6 4	8.42 1.19 1.10 1.43	340 48 449 57	88.7 02.1 39.2 94.4	1.32 0.19 0.88 0.11	5322.2 749.7 3569.3 460.2	1381.3 919.1 699.9 426.2	1.60 1.07 1.15 0.70	14.31 9.52 10.28 6.26	GM/ SQ. M. 11.88 7.90 15.66 9.54	105.94 70.49 139.66 85.06	GM/ SQ. M 1.85 1.23 1.24 0.76	16.54 11.01 11.09 6.76
SEP. 15- II	16/71 0 I 0	1.14 0.16 0.82 0.11	4603. 648. 3306. 426.	5 5 6 4 8	8.42 1.19 1.10 1.43 5.44	340 48 449 57 220	88.7 02.1 39.2 94.4 33.7	1.32 0.19 0.88 0.11 0.48	5322.2 749.7 3569.3 460.2 1935.0	1381.3 919.1 699.9 426.2 359.3	1.60 1.07 1.15 0.70 0.62	14.31 9.52 10.28 6.26 5.53	GM/ SQ. M 11.88 7.90 15.66 9.54 7.68	105.94 70.49 139.66 85.06 68.48	GM/ SQ. M 1.85 1.23 1.24 0.76 0.67	16.54 11.01 11.09 6.76 6.01
SEP. 15- II III	16/71 0 I 0 I	1.14 0.16 0.82 0.11 0.44 0.05	4603. 648. 3306. 426. 1778.	5 5 6 4 8 5	8.42 1.19 1.10 1.43 5.44 0.60	340 48 449 57 220 24	88.7 02.1 39.2 94.4 33.7 21.3	1.32 0.19 0.88 0.11 0.48 0.05	5322.2 749.7 3569.3 460.2 1935.0 212.6	TOTAL W (GM) 1381.3 919.1 699.9 426.2 359.3 186.5	1.60 1.07 1.15 0.70 0.62 0.32	14.31 9.52 10.28 6.26 5.53 2.87	GM/ SQ. M 11.88 7.90 15.66 9.54 7.68 3.98	105.94 70.49 139.66 85.06 68.48 35.54	GM/ SQ. M 1.85 1.23 1.24 0.76 0.67 0.35	16.54 11.01 11.09 6.76 6.01 3.12
SEP. 15- II III	16/71 0 I 0 I 0	1.14 0.16 0.82 0.11 0.44 0.05	4603. 648. 3306. 426. 1778. 195. 3885.	5 5 6 4 8 5	8.42 1.19 1.10 1.43 5.44 0.60 7.79	340 48 449 57 220 24 315	88.7 02.1 39.2 94.4 33.7 21.3 38.6	1.32 0.19 0.88 0.11 0.48 0.05 1.09	5322.2 749.7 3569.3 460.2 1935.0 212.6 4430.9	1381.3 919.1 699.9 426.2 359.3 186.5	1.60 1.07 1.15 0.70 0.62 0.32	14.31 9.52 10.28 6.26 5.53 2.87 12.07	GM/ SQ. M 11.88 7.90 15.66 9.54 7.68 3.98 10.99	105.94 70.49 139.66 85.06 68.48 35.54 98.02	GM/ SQ. M 1.85 1.23 1.24 0.76 0.67 0.35 1.54	16.54 11.01 11.09 6.76 6.01 3.12 13.77
SEP. 15- III III IV	16/71 0 I 0 I 0 I	1.14 0.16 0.82 0.11 0.44 0.05	4603. 648. 3306. 426. 1778. 195. 3885. 199.	5 5 5 6 4 4 8 5 1 6	8.42 1.19 1.10 1.43 5.44 0.60 7.79 0.40	340 48 449 57 220 24 315	88.7 02.1 39.2 94.4 33.7 21.3 38.6 20.0	1.32 0.19 0.88 0.11 0.48 0.05 1.09	5322.2 749.7 3569.3 460.2 1935.0 212.6 4430.9 227.6	1381.3 919.1 699.9 426.2 359.3 186.5 503.3	1.60 1.07 1.15 0.70 0.62 0.32 1.35 0.33	14.31 9.52 10.28 6.26 5.53 2.87 12.07 2.93	GM/ SQ. M 11.88 7.90 15.66 9.54 7.68 3.98 10.99 2.67	105.94 70.49 139.66 85.06 68.48 35.54 98.02	GM/ SQ. M 1.85 1.23 1.24 0.76 0.67 0.35 1.54	16.54 11.01 11.05 6.76 6.01 3.12 13.77 3.34
SEP. 15- III III IV	16/71 0 1 0 1 0 1 0 1	1.14 0.16 0.82 0.11 0.44 0.05 0.96 0.95	4603. 648. 3306. 426. 1778. 195. 3885. 199.	5 5 5 6 4 8 5 1 6 6	8.42 1.19 1.10 1.43 5.44 0.60 7.79 0.40 3.39	340 48 449 57 220 24 315 16	88.7 02.1 39.2 94.4 33.7 21.3 38.6 20.0 05.7	1.32 0.19 0.88 0.11 0.48 0.05 1.09 0.06 1.39	5322.2 749.7 3569.3 460.2 1935.0 212.6 4430.9 227.6 5631.7	1381.3 919.1 699.9 426.2 359.3 186.5 503.3 122.1 510.9	1.60 1.07 1.15 0.70 0.62 0.32 1.35 0.33	14.31 9.52 10.28 6.26 5.53 2.87 12.07 2.93	GM/ SQ. M 11.88 7.90 15.66 9.54 7.68 3.98 10.99 2.67 4.78	105.94 70.49 139.66 85.06 68.48 35.54 98.02 23.78	GM/ SQ. M 1.85 1.23 1.24 0.76 0.67 0.35 1.54	16.54 11.01 11.09 6.76 6.01 3.12 13.77 3.34
SEP. 15- III III IV	16/71 0 I 0 I 0 I	1.14 0.16 0.82 0.11 0.44 0.05	4603. 648. 3306. 426. 1778. 195. 3885. 199.	5 5 5 6 4 8 5 1 6 6	8.42 1.19 1.10 1.43 5.44 0.60 7.79 0.40	340 48 449 57 220 24 315 16	88.7 02.1 39.2 94.4 33.7 21.3 38.6 20.0	1.32 0.19 0.88 0.11 0.48 0.05 1.09	5322.2 749.7 3569.3 460.2 1935.0 212.6 4430.9 227.6	1381.3 919.1 699.9 426.2 359.3 186.5 503.3	1.60 1.07 1.15 0.70 0.62 0.32 1.35 0.33	14.31 9.52 10.28 6.26 5.53 2.87 12.07 2.93	GM/ SQ. M 11.88 7.90 15.66 9.54 7.68 3.98 10.99 2.67	105.94 70.49 139.66 85.06 85.04 98.02 23.78 421.66	GM/ SQ. M 1.85 1.23 1.24 0.76 0.67 0.35 1.84 0.37 1.96 0.54	16.54 11.01 11.05 6.76 6.01 3.12 13.77 3.34
SEP. 15- II III IV	16/71 0 1 0 1 0 1 0 1	1.14 0.16 0.82 0.11 0.44 0.05 0.96 0.95	4603. 648. 3306. 426. 1778. 195. 3885. 199.	5 5 5 6 4 4 8 5 5 1 6 6 6 3	8.42 1.19 1.10 1.43 5.44 0.60 7.79 0.40 3.39	340 48 449 57 220 24 315 16 137 7	88.7 02.1 39.2 94.4 33.7 21.3 38.6 20.0 05.7	1.32 0.19 0.88 0.11 0.48 0.05 1.09 0.06 1.39	5322.2 749.7 3569.3 460.2 1935.0 212.6 4430.9 227.6 5631.7	1381.3 919.1 699.9 426.2 359.3 186.5 503.3 122.1 510.9	1.60 1.07 1.15 0.70 0.62 0.32 1.35 0.33	14.31 9.52 10.28 6.26 5.53 2.87 12.07 2.93	GM/ SQ. M 11.88 7.90 15.66 9.54 7.68 3.98 10.99 2.67 4.78	105.94 70.49 139.66 85.06 68.48 35.54 98.02 23.78	GM/ SQ. M 1.85 1.23 1.24 0.76 0.67 0.35 1.54 0.37 1.96 0.54	16.54 11.01 11.09 6.76 6.01 3.12 13.77 3.34

				SECT						95 P	ERCENT		MEAN	MEAN	·		
			(SQ.M)	LEN			POP.			CONF.	LIMITS		WEIGHT	LENGTH		FISH (S	
SECTION	AGE	WETTED	RIFFLE	(M)	C1	C2	N	· N		LOWER	UPPER	P	(GM)	(MM)	WETTED	RIFFLE	POOL
MAY 24-2	5/72							2 1 .		,				** *		*	
II	0	327.8	17.4	57	284	155	625	3071	9	514 4	736.1	0.45	0.60	38.4	0.52	0.03	0.50
••	ī	527.0		٠.	3	0	3		0.0	3.0		1.00	3.43	61.1	109.27	5.80	103.47
III	0	451.9	46.6	69		146	616	550		568.9	662.8	0.61	0.60	38.4	0.73	0.08	0.66
	I			-	14	1	- 15		).1	14.4	15.7	0.93	3.43	61.1	29.97	3.09	26.88
IV	0	521.0	55.8	82	338	278	1904	419661			3199.7	0.18	0.61	38.5	0.27	0.03	0.24
	I				19	6	28		.4	21.0	34.5	0.68	. 3.31	60.4	18.76	2.01	16.75
VI .	0	602.2	34.0	113	301	209	985	28173	3.7		1320.5	0.31	0.54	37.2	0.61	0.03	0.58
	1				5	2	8		1.6	2.5	14.2	0.60	3.07	59.0	72.26	4.08	68.18
VIII	0	392.3	142.6	94	332	257	1470	135523	1.0	733.4	2205.9	0.23	0.58	37.9	0.27	0.10	0.17
	I				15	10	45	900	0.0	-15.0	105.0	0.33	2.79	57.2	8.72	3.17	5.55
ALL	0	2295.2	296.4	415	1633	1045	4535	65238	.8 4	024.3	5046.0	0.36	0.59	38.1	0.51	0.07	0.44
	I				56	19	85	45	.3	71.3	98.2	0.66	3.14	59.4	27.08	3.50	23.56
			VETTED		R	IFFLE		· PO	OL	1	WETTED	. WE	TTED	RI	FFLE .	P	00L
SECTION	AGE	FISH/			FISH/	FIS		FISH/	ACR		(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	ACRE
MAY 24-2	5/72		-		-	-		- ' -	1 .	***		7					
II	0	1.91	7719.	2 4	35.93	14542	2.0	2.01	8151	9	375.1	1.14	10.21	21.56	192.32	1.21	10.78
	ī	0.01			0.17		7.8	0.01	39			0.03	0.28	0.59	5.28		
III	0	1.36			13.22	5348		1.52	6149		369.5	0.82	7.29	7.93	70.73		
	I	0.03			0.32	130		0.04	150		51.7	0.11	1.02	1.11	9.90		1.14
IV	0	3.65			34.12	13809			16564		1161.5	2.23	19.89	20.82	185.67		
	I	0.08			0.50	201		0.06	241		91.9	. 0.18	1.57	1.65	14.69		
VI	0	1.64			28.96	11721		1.73	7014		531.8	0.88	7.88	15.64	139.52		
	1.	0.01			0.25		1.9	0.01	59		25.6	0.04	0.38	0.75	6.71		0:40
VIII	0	3.75	15161.		10.31	4170			23819		852.4	2.17	19.38	5.98	53.32		30.45
	I	0.11	464.	2	0.32	127		0.18	729		125.6	0.32	2.85	0.88	7.85		
	_	1.98	7996.		E 20	6192				_		4 40	10.34	8.97	80.04	4 00	11.87
ALL	0	1.00	/ / / / / / / / / / / / / / / / / / / /	6	15.30	6192	6.1	2.27	9182	. 5	2659.8	1.16	10.34	65.347	80.04	1.33	

office of the second of

-	•			SECT						95	PERCENT	.*	MEAN	MEAN	:		
		AREA (S	SQ.M)	LEN	1		POP.	- 1	AR.	CONF	. LIMITS		WEIGHT	LENGTH		FISH (S	
SECTIO	N AGE	WETTED	RIFFLE	(M).	C1	C2	N		N	LOWE	R UPPER	P	(GM)	(MM)	WETTED	RIFFLE	P00
SEP. 1	1-13/72										41.5			pa 19			
11	0	377.4	15.4	. 99	140	54	228		202.7			0.61	1.32	47.2	1.66	0.07	1.5
	1				12	4	18		9.0			0.67	6.99	78.9	20.97		20.1
III	0	420.6	19.6	107	129	62	248		306.3			0.52	1.29	46.9	1.69	0.08	1.6
	I				18	9	36		108.0			0.50	6.78	78.0	11.68		11.1
IV .	0	312.9	12.6	66	193	75	316		289.6			0.61	1.13	45.2	0.99	0.04	0.9
	. I				13	4	19		7.0	13.		0.69	6.60	77. 2	16.66		15.9
VI	0	358.9	1.7	114		84	. 363		254.0				1.09	44.8	0.99	0.00	0.9
	1				. 9	1	10		0.2	9.		0.89	5.67	72.8	35.45	0.17	35.2
VIII	0.	335.0	.94.2.	92	172	69	287		101.6	252.			. 1.11	45.1	1.17	0.33	0.8
					18	7	. 29		27.1	19.	0 39.9	0,61	6,38	76.2	11.37	3.20	8.1
ALL	0	1804.8	143.5	47R	865	344	1436	. 14	52.9	1350	9 1512.4	0.60	1.17	45.7	1.26	0.10	1.1
	1		11.		70	25	109		70.9		0 125.7		6.56	77.0	16.57		15.2
			ETTED			FFLE			POOL		WETTED		TTED		FFLE	p	
SECTION	N AGE	FISH/ SQ. M	ETTED FISH ACRE		RI ISH/		SH/	FISH,	1	FISH/	WETTED TOTAL WT (GM)	GM/ SQ: M	LB/	GM/ SQ. M	LB/	GM/ SQ. M	DOL LB/ ACR
	-	FISH/	FISH		ISH/	FIS		FISH	1		TOTAL WT	GM/	LB/	GM/	LB/	GM/	LB/
SEP. 1	1-13/72	FISH/ SQ. M	FISH		15H/ 50. M	FIS	E	FISH,		ACRE	TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACR
SEP. 1	-	FISH/ SQ. M	FISH ACRE	9	15H/ 5Q. M	F15 ACF	2.2	FISH, 50. I	1 2	547.9	TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACR
SEP. 1	1-13/72	FISH/ SQ. M 0.60 0.05	FISH ACRE 2443.1	9	ISH/ SQ. M 14.80 1.17	5989 473	2.2 0.3	0.63 0.05	2	547.9 201.2	300.8 125.8	GM/ SQ: M 0.80 0.33	7.11 2.97	GM/ SQ. M 19.53 8.17	174.25 72.88	GM/ SQ. M	7.4 3.1
	1-13/72 0 I	FISH/ SQ. M 0.60 0.05 0.59	2443.193.0	9 9	14.80 1.17	5989 473 5128	2.2 0.3 4.0	0.63 0.05 0.63	2 2	547.9 201.2 506.6	300.8 125.8 320.4	GM/ SQ. M 0.80 0.33 0.76	7.11 2.97 6.80	GM/ SQ. M 19.53 8.17 16.35	174.25 72.88	GM/ SQ. M	7.4 3.1
SEP. 1	1-13/72 0 I	FISH/ SQ. M 0.60 0.05 0.59 0.09	2443. 193. 2389. 346.	9 9	14.80 1.17 12.67	5989 473 5128 743	2.2 0.3 4.0	0.63 0.05 0.05 0.05	2	547.9 201.2 506.6 363.3	300.8 125.8 320.4 244.1	GM/ SQ. M O.80 O.33 O.76 O.58	7.11 2.97 6.80 5.18	GM/ SQ. M 19.53 8.17 16.35 12.45	174.25 72.88 145.82	GM/ SQ. M 5 0.83 0.35 0.80 0.61	7.4 3.1 7.1 5.4
SEP. 1	1-13/72 0 I	FISH/ SQ. M 0.60 0.05 0.59 0.09 1.01	2443.193.0	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	14.80 1.17 12.67 1.84 25.05	5989 473 5128 743 10138	2.2 0.3 4.0 93.3	0.63 0.05 0.63 0.05 1.05	2	547.9 201.2 506.6 363.3 254.1	300.8 125.8 320.4 244.1 356.7	GM/ SQ: M 0.80 0.33 0.76 0.58 1.14	7.11 2.97 6.80 5.18	GM/ SQ. M 19.53 8.17 16.35 12.45 28.31	174.25 72.88 145.82 111.08	GM/ SQ. M	7.4 3.1 7.1 5.4
SEP. 1	1-13/72 0 I	0.60 0.05 0.59 0.09	2443.193.42389.346.4082.242.1	9 0 8 4 4 8 9	14.80 1.17 12.67 1.84 25.05	5989 473 5128 743 10138	2.2 0.3 4.0 3.3 0.0	0.63 0.05 0.63 0.05 0.05 0.05	2: 2:	547.9 201.2 506.6 363.3 254.1 253.1	300.8 125.8 320.4 244.1 356.7 123.9	GM/ SQ: M 0.80 0.33 0.76 0.58 1.14 0.40	7.11 2.97 6.80 5.18 10.17 3.53	GM/ SQ. M 19.53 8.17 16.35 12.45 28.31 9.84	174.25 72.88 145.82 111.08 252.53	GM/ SQ. M 50.83 0.35 20.80 0.61 1.19	7.4 3.1 7.1 5.4 10.6 3.6
SEP. 1	1-13/72 0 I 0 I 0 I	0.60 0.05 0.59 0.09 1.01	2443. 193. 2389. 346. 4082.	9 0 8 4 8 8 9 2	14.80 1.17 12.67 1.84 25.05 1.49	5989 473 5128 743 10138 603 86415	2.2 0.3 4.0 3.3 0.0	0.63 0.05 0.05 0.05 0.06 0.06	2:	547.9 201.2 506.6 363.3 254.1 253.1	300 8 125 8 320 4 244 1 356 7 123 9 395 7	GM/ SQ: M 0.80 0.33 0.76 0.58 1:14 0.40 1.10	7.11 2.97 6.80 5.18 10.17 3.53 9.83	GM/ SQ. M 19.53 8.17 16.35 12.45 28.31 9.84 232.75	174.25 72.88 145.82 111.08 252.53 87.74	GM/ SQ. M 50.83 0.35 0.80 0.61 1.19 4.0.41	7.4 3.1 7.1 5.4 10.6 3.6 9.8
SEP. 1	1-13/72 0 1 0 1 0 1	0.60 0.05 0.59 0.09	2443. 193. 2389. 346. 4082. 44093.	90084488299222	15H/ 50. M 14.80 1.17 12.67 1.84 25.05 1.49 13.53 5.96	5989 473 5128 743 10139 603 86415 2410	22.2 00.3 44.0 03.3 00.0 11.2 03.5	0.63 0.05 0.63 0.05 0.06 0.06 1.05 0.06	21 21 4	547.9 201.2 506.6 506.6 363.3 254.1 112.7	300.8 125.8 320.4 244.1 356.7 123.9 395.7 57.4	GM/ SQ: M O.80 O.33 O.76 O.58 1.14 O.40 1.10 O.16	7.11 2.97 6.80 5.18 10.17 3.53 9.83 1.43	GM/ SQ. M 19.53 8.17 16.35 12.45 28.31 9.84 232.75 33.77	174.25 72.88 145.82 111.08 252.53 87.74 2076.10	GM/ SQ. M 5 0.83 5 0.80 6 0.61 1.19 0.41 1.11 0.16	7.4 3.1 7.1 5.4 10.6 9.8 1.4
SEP. 1	1-13/72 0 1 0 1 0 1	0.60 0.05 0.59 0.09 1.01 0.06 1.01	2443. 193. 2389. 346. 4082. 242. 4093. 114.	99 00 BB 44 BB 22 21 21 BB	14.80 1.17 12.67 1.84 25.05 1.49	5988 473 5128 10138 603 86415 2410 1233	22.2 00.3 44.0 03.3 00.0 11.2 03.5	0.63 0.05 0.05 0.05 0.06 0.06	2: 2: 4: 4: 4: 4: 4:	547.9 201.2 506.6 363.3 254.1 253.1	300 8 125 8 320 4 244 1 356 7 123 9 395 7	GM/ SQ: M 0.80 0.33 0.76 0.58 1:14 0.40 1.10	7.11 2.97 6.80 5.18 10.17 3.53 9.83 1.43 8.49	GM/ SQ. M 19.53 8.17 16.35 12.45 28.31 9.84 232.75	174 . 25 72 . 88 145 . 82 111 . 08 252 . 53 87 . 74 2076 . 10 301 . 23 30 . 18	GM/ SQ. M 50.83 0.35 0.80 0.61 1.19 0.41 1.11 1.11 1.11 1.11 1.11	7.4 3.1 7.1 5.4 10.6 9.8 1.4
SEP. 1	1-13/72 0 1 0 1 0 1	FISH/ SQ. M 0.60 0.05 0.59 0.09 1.01 0.06 1.01 0.03	2443.193.2389.346.4082.242.114.3469.	9 0 8 4 8 2 9 2 2 2 8 8 8	14.80 1.17 12.67 1.84 1.65 1.49 13.53 15.96 3.05	5988 473 5128 10138 603 86415 2410 1233	2.2 0.3 4.0 3.3 0.0 11.2 3.0 9.6 5.4	0.63 0.05 0.62 0.05 1.05 0.06 1.05	2 2 2 4 4 4 4 4 4 4	547.9 201.2 506.6 363.3 254.1 112.7 114.7 827.2	300.8 125.8 320.4 244.1 356.7 123.9 395.7 57.4 318.8	GM/ SQ. M O.80 O.33 O.76 O.58 1:14 O.40 1:10 O.16 O.95	7.11 2.97 6.80 5.18 10.17 3.53 9.83 1.43 8.49 5.00	GM/ SQ. M 19.53 8.17 16.35 12.45 28.31 9.84 232.75 33.77 3.38	174 . 25 72 . 88 145 . 82 111 . 08 252 . 53 87 . 74 2076 . 10 301 . 23 30 . 18	GM/ SQ. M 5 0.83 5 0.80 6 0.61 1.19 0.41 0.11 0.16 1.32 0.78	LB/

The day of the party of the party.

SECTION	AGE	AREA (	5Q.M)	SECT LEN (M)		C2	POP.	VAR			TS	WEI	EAN . IGHT SM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	.M) POOL
MAY . 21-J	INE :	1/74		,	*,*				*							-	1111
II	0	487.9	35.5	71	228	52.	. 295	41	.0 282	.6 308	2 0.7	7 (	0.58	40.5	1.65	0.12	1.53
••	ī	407.9			34		72	297					3.69	67.0	6.75	0.49	6:26
III	ò	316.3	152.1	66		44	230	46					0.53	39.8	1.37	0.66	0.71
***	7	310.0	152.1	00	4	1	5			.3 7			3, 15	65.0	59.31	28.52	30.79
IV	ô	292.7	56.1	32	457	103	- 590	79					0.50	39.0	0.50	0.10	0.40
**	ĭ	232.1	30.1	32	27	8	. 38	12					2.80	62.1	7.63	1.46	6. 17
V	ò	289.7	77.3	46		61	417	28					0.59	40.8	0.69	0.19	0.51
V	0	289.7	11.3	46	-										28.61	7.63	20.98
	1				9	1.	. 10			.2. 11			2.72	62.1			
VI	0	357.1	63.6	- 55		46	209	98					0.56	40.4	1:71	0.31	36.69
	1				4	2	. 8	24					2.71	62.3	44.64	7.95	
IIIV	0	483.4	163.9	. 77	72	34	136	304					0.63	41.6	3.54	. 1.20	2.34
	I				5	1	. 6	0	.6 4	.7. 7	8 0.8	10 1	1.85	55.2	77.34	26.22	51.12
ALL	0	2227.1	548.5	347	1411	340	1859	306		.9 1893			0.55	40.1	1.20	0.30	0.90
	I				83	31	132	103	.2 112	.2 152	8 0.6	3 3	3.16	64.1	16.81	4.14	12.67
			ETTED		RI	FFLE		PO	nı	WETTER	)	WETTER	,	DTI	FLE	pn	OL .
SECTION																	
SECTION	AGE	FISH/	FISH		FISH/		SH/ RE	FISH/		TOTAL (GM)	IT GN	/ 1	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE
MAY 21-J		SQ. M			FISH/	FI		FISH/	FISH/	TOTAL I	IT GN	/ 1	LB/	GM/	LB/	GM/	LB/
		SQ. M			FISH/	FI:		FISH/	FISH/	TOTAL I	T GN	M /	LB/	GM/	LB/	GM/ SQ. M	LB/ ACRE
MAY 21-J	UNE 1	SQ. M	ACRE	0	FISH/ SQ. M	FI:	RE	FISH/ SQ. M	FISH/ ACRE	TOTAL (GM)	SQ.	M /	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ 5Q. M	LB/ ACRE
MAY 21-J	UNE 1	SQ. M	2450. 599.	0 3	8.32 2.04	336 82	71.5 36.5	FISH/ SQ. M 0.65 0.16	FISH/ ACRE 2642.2 646.3	170.0	SQ.	35 3 55 4	ACRE	GM/ SQ. M	ACRE	GM/ SQ. M	3.35 5.26
MAY 21-J	UNE 1	SQ. M	2450. 599. 2945.	0 3 9	8.32 2.04	336 82 61:	71.5 36.5 26.2	O.65 O.16	FISH/ ACRE 2642.2 646.3 5674.8	TOTAL (GM)	O O.	35 3 55 4 39 3	3.11 4.87 3.46	GM/ SQ. M 4.79 7.51	LB/ ACRE 42.73 66.98	GM/ SQ. M	3.35 5.26 6.66
MAY 21-J	UNE O	0.61 0.15 0.73 0.02	2450. 599. 2945. 68.	0 3 9 2	8.32 2.04 1.51	336 82 61:	71.5 36.5 26.2 41.9	O.65 O.16 1.40 O.03	FISH/ ACRE 2642.2 646.3 5674.8 131.4	170.0 . 266.0 122.0	O O. G. G. O. G.	35 3 55 4 39 3 05 0	3.11 4.87 3.46 0.47	GM/ SQ. M 4.79 7.51 0.81 0.11	42.73 66.98 7.19 0.99	GM/ SQ. M	3.35 5.26 6.66 0.91
MAY 21-J	UNE 1	SQ. M 0.61 0.15 0.73 0.02 2.02	2450. 599. 2945. 68. 8157.	0 3 9 2 2 2	8.32 2.04 1.51 0.04	336 82 61: 1	71.5 36.5 26.2 41.9 59.8	O.65 O.16 1.40 O.03 2.49	2642.2 646.3 5674.8 131.4 10091.3	170. (gM) 170. 266. 122. 16.1 293.	O O. S. O. S	35 3 55 4 39 3 05 00	3.11 4.87 3.46 0.47 8.94	GM/ SQ. M 4.79 7.51 0.81 0.11 5.23	42.73 66.98 7.19 0.99	GM/ SQ. M	3.35 5.26 6.66 0.91
MAY 21-J	UNE O I O I O I	SQ. M 0.61 0.15 0.73 0.02 2.02 0.13	2450. 599. 2945. 68. 8157.	0 3 9 2 2 5	8.32 2.04 1.51 0.04 10.52 0.68	336 82 61: 1 425: 27:	71.5 36.5 26.2 41.9 59.8 67.9	O.65 O.16 1.40 O.03 2.49 O.16	FISH/ ACRE 2642.2 646.3 5674.8 131.4 10091.3 656.3	170. (GM) 170. 266. 122. 16. 293.	O O. S. O. S	35 35 35 35 39 305 00 80 37 37	3.11 4.87 3.46 0.47 8.84 3.27	GM/ SQ. M 4.79 7.51 0.81 0.11 5.23 1.91	42.73 66.98 7.19 0.99 46.64 17.08	GM/ 5Q. M	3.35 5.26 6.66 0.91
MAY 21-J	UNE 10 1 0 1 0 1 0 1 0 0 1	SQ. M 0.61 0.15 0.73 0.02 2.02 0.13 1.44	2450. 5995. 68. 8157. 530. 5828.	0 3 9 2 2 5	8.32 2.04 1.51 0.04 10.52 0.68 5.40	336 82: 61: 1: 425: 27: 218:	71.5 36.5 26.2 41.9 59.8 67.9 42.0	O.65 O.16 1.40 O.03 2.49 O.16 1.96	2642.2 646.3 5674.8 131.4 10091.3 656.3 7949.1	170. (GM) 170. 266. 122. 16. 293. 107. 245.	O O. S. O. S	35 35 35 39 305 00 80 37 385 7	3.11 4.87 3.46 0.47 8.94 3.27 7.55	GM/ SQ. M 4.79 7.51 0.81 0.11 5.23 1.91 3.17	42.73 66.98 7.19 0.99 46.64 17.08 28.30	GM/ SQ. M	3.35 5.26 6.66 0.91 11.06 4.05
MAY 21-J	UNE 0 1 0 1 0 1 0 1 0 1	SQ. M 0.61 0.15 0.73 0.02 2.02 0.13 1.44 0.03	2450. 599. 2945. 68. 8157. 5300. 5828.	0 3 9 2 2 5 1	8.32 2.04 1.51 0.04 10.52 0.68 5.40 0.13	336 82 61: 1, 425 27/ 218	71.5 36.5 26.2 41.9 59.8 67.9 42.0 30.1	O.65 O.16 1.40 O.03 2.49 O.16 1.96 O.05	2642.2 646.3 5674.8 131.4 10091.3 656.3 7949.1 192.9	170.0 266.0 122.0 16.1 293.1 107.0 245.27.0	O O. S. O. S	35 35 35 36 39 30 30 37 38 5 7 10 00	3.11 4.87 3.46 0.47 8.94 3.27 7.55	GM/ SQ. M 4.78 7.51 0.81 0.11 5.23 1.91 3.17 0.36	42.73 66.98 7.19 0.98 46.64 17.08 28.30 3.18	GM/ SQ. M	3.35 5.26 6.66 0.91 11.06 4.05 10.30
MAY 21-J	UNE O I O I O I O I O I O I O I O I O I O	SQ. M 0.61 0.15 0.73 0.02 2.02 0.13 1.44 0.03 0.58	2450. 599. 2945. 68. 8157. 530. 5828. 141. 2363.	0 3 9 2 2 5 1 4 0	8.32 2.04 1.51 0.04 10.52 0.68 0.13 3.28	336 82 61: 425 277 218: 5:	71.5 36.5 26.2 41.9 59.8 67.9 42.0 30.1 68.0	O.65 O.16 1.40 O.03 2.49 O.16 1.96 O.05 O.71	2642.2 646.3 5674.8 131.4 10091.3 656.3 7949.1 192.9 2875.1	170.0 266.1 122.1 16.1 293.1 107.2 245.2 116.1	O O. S. O. S	35 35 35 39 30 05 00 8 37 38 5 10 33 33 33	3.11 4.87 3.46 0.47 8.84 3.27 7.55 0.85 2.91	GM/ SQ. M 4.79 7.51 0.81 0.11 5.23 1.91 3.17 0.36 1.83	42.73 66.98 7.19 0.99 46.64 17.08 28.30 3.18 16.35	GM/ 5Q. M	3.35 5.26 6.66 0.91 11.06 4.05 1.16 3.54
MAY 21-J	UNE O I O I O I O I O I O I O I O I O I O	SQ. M 0.61 0.15 0.73 0.02 2.02 0.13 1.44 0.03 0.58 0.02	2450. 599. 2945. 68. 8157. 530. 5828. 141. 2363. 90.	0 3 9 2 2 5 1 4 0 7	8.32 2.04 1.51 0.04 10.52 0.68 5.40 0.13 3.28 0.13	336 822 61: 1,425: 278 5132: 5132:	71.5 36.5 26.2 41.9 59.8 67.9 42.0 30.1 68.0	O.65 O.16 1.40 O.03 2.49 O.16 1.96 O.05 O.71 O.03	2642.2 646.3 5674.8 131.4 10091.3 656.3 7949.1 192.9 2875.1 110.3	170. 266. 122. 16. 293. 107. 245. 27. 116.	O O O O O O O O O O O O O O O O O O O	35 35 35 39 30 50 00 8 5 110 33 3 30 6 00 6 00	3.11 4.87 3.46 0.47 8.84 3.27 7.55 0.85 2.91	GM/ SQ. M 4.79 7.51 0.81 0.11 5.23 1.91 3.17 0.36 1.83 0.34	42.73 66.98 7.19 0.98 46.64 17.08 28.30 3.18 18.35	GM/ SQ. M	3.35 5.26 6.66 0.91 11.06 4.05 10.36 0.66
MAY 21-J	UNE O I O I O I O I O I O I O I O I O I O	SQ. M 0.61 0.15 0.73 0.02 2.02 0.13 1.44 0.03 0.58	2450. 599. 2945. 68. 8157. 530. 5828. 141. 2363.	0 3 9 2 2 5 1 4 0 7	8.32 2.04 1.51 0.04 10.52 0.68 0.13 3.28	336 822 61: 1: 425: 27: 218: 5: 132: 33:	71.5 36.5 26.2 41.9 59.8 67.9 42.0 30.1 68.0	O.65 O.16 1.40 O.03 2.49 O.16 1.96 O.05 O.71 O.03 O.43	2642.2 646.3 5674.8 131.4 10091.3 656.3 7949.1 192.9 2875.1	170.0 266.1 122.1 16.1 293.1 107.2 245.2 116.1	O O O O O O O O O O O O O O O O O O O	35 35 35 39 30 05 00 8 37 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ACRE 3.11 4.87 3.46 0.47 7.55 0.85 2.91 0.54 1.59	GM/ SQ. M 4.78 7.51 0.81 0.11 5.23 1.91 1.91 1.3.17 0.36 1.83 0.34	42.73 66.98 7.19 0.99 46.64 17.08 28.30 3.18 16.35	GM/ SQ. M	3.35 5.26 6.66 0.91 11.06 4.05 10.30 1.16 3.56 2.41
MAY 21-J	UNE 10 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	SQ. M 1/74 0.61 0.15 0.73 0.02 2.02 0.13 1.44 0.03 0.58 0.02 0.28 0.01	2450. 599. 2945. 68. 8157. 530. 5828. 141. 2363. 90. 1142. 52.	0 3 9 2 2 5 1 4 0 7	8.32 2.04 1.51 0.04 10.52 0.68 0.13 3.28 0.13 0.83	336 82 61: 1: 425: 27 218: 5: 132: 5: 33:	71.5 36.5 26.2 41.9 59.8 42.0 30.1 68.0 09.1 68.5 54.3	O.65 O.16 1.40 O.03 2.49 O.16 1.96 O.05 O.71 O.03 O.43 O.02	2642.2 646.3 5674.8 131.4 10091.3 656.3 7949.1 192.9 2875.1 110.3 1728.0 79.2	170.4 (GM) 170.6 266.1 122.6 16.1 293.1 107.2 245.2 27.1 116.6 21.8 86.1	O O O O O O O O O O O O O O O O O O O	35 35 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	3.11 4.87 3.46 0.47 8.94 3.27 7.55 0.85 2.91 0.59	GM/ SQ. M 4.79 7.51 0.81 0.11 5.23 1.91 3.17 0.36 1.83 0.34 0.53 0.07	42.73 66.98 7.19 0.99 46.64 17.08 28.30 3.18 16.35 3.04 4.70	GM/ 5Q. M 30.38 0.59 0.75 0.10 1.24 0.45 1.15 3.0.13 0.40 0.07 0.27	3.35 5.26 6.66 0.91 11.06 4.05 10.36 0.66 2.41
MAY 21-J	UNE 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SQ. M 1/74 0.61 0.75 0.73 0.02 2.02 0.13 1.44 0.03 0.58 0.02 0.28	2450. 599. 2945. 68. 8157. 530. 5828. 141. 2363. 90.	0 3 9 2 2 5 1 4 0 7 1 3	8.32 2.04 1.51 0.04 10.52 0.68 5.40 0.13 3.28 0.13 0.83	336 822 61: 1425 27: 218: 5: 132: 5: 33: 11:	71.5 36.5 26.2 41.9 59.8 67.9 42.0 30.1 68.0	O.65 O.16 1.40 O.03 2.49 O.16 1.96 O.05 O.71 O.03 O.43	2642.2 646.3 5674.8 131.4 10091.3 656.3 7949.1 192.9 2875.1 110.3 1728.0	170.4 (GM) 170.6 266.1 122.1 16.2 293.1 107.2 245.2 27.1 116.2 21.8	O O O O O O O O O O O O O O O O O O O	35 35 35 35 39 30 00 8 37 33 30 06 18 10 02 46 46	ACRE 3.11 4.87 3.46 0.47 7.55 0.85 2.91 0.54 1.59	GM/ SQ. M 4.78 7.51 0.81 0.11 5.23 1.91 1.91 1.3.17 0.36 1.83 0.34	42.73 66.98 7.19 0.99 46.64 17.08 25.30 3.18 16.35 3.04 4.70	GM/ SQ. M 3 0.38 6 0.59 0.75 0.10 1.24 0.45 0.13 0.40 0.40 0.07 0.27 0.04	LB/

Cartegor Loss of Court w

SECTI	ON	AGE			SECT. LEN (M)		C2	POP .	V			PERCENT LIMITS R UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	M) POOL
AUG.	16/	74		• • • •			:	+				*	1.					
II	,	0 .	380.8	8.9	71	248	19 .	269		2.2	265.	6 . 271.5	0.92	1.43	50.8	1.42	0.03	1.38
		I	,-			29	1	30		0.0		6 30.4		5.36		12.68	0.30	12.38
			W	ETTED		ŔI	FFLE		F	OOL		WETTED	WE	TTED	RII	FFLE	PO	OL
SECTI	ON	AGE	FISH/		/ F	SH/	FISH	/	FISH/	FI		(GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/
AUG 1	6/74	4							*									
II		0	0.71	2854.	3 30	0.18	122127	.0	0.72	292	2.6	383.3	1.01	8.98	43.06	384.11	1.03	9.19
		I	0.08			3.37		-	0.08		6.8	160.9	0.42		18.08			3.86

	-																
ECTION	AGE	AREA (	SQ.M) RIFFLE	SECT LEN (H)	C1	C2	POP.		AR.	95 P CONF. LOWER	ERCENT LIMITS UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/	FISH (80 RIFFLE	P00
EP. 16-	19/74	375.3	21.3	70	212	29	246		8.1	239.9	251.3	0.86	1.59	52.0 77.7	1.53	0.09	1.4
II	I		28.3	63	29	23 2	37 166		8.1 3.8 9.3	239.9 32.7 159.5	251.3 40.5 171.7	0.83	1.59 5.17 1.28	. 48.4	1.53 10.26 1.32	0.58 0.17	9.6
V	I	247.6	18.7	34	236	59	13 315		1.0 58.3	299.4	329.9	0.82 0.75 0.85	4.89	75.9	16.24	2.10	14.1
	0 -	191.6	58.9	45	26 166	23	193		1.4	28.4	197.8	0.86	4.89 1.19 5.30 1.22	78.0	8.06	0.61	7.
	O	215.9.	13.3	56	15 244	32	281		8.3	15.0 275.1	286.6	1.00	6.06	81.3 50.5 77.4 51.9	12,77	3.93	8.
III	I O I	172.7	82.4	55	17 86 3	23 1	18 117 5		0.1 27.1 2.3	17.5 107.0 1.5	18.6 127.8 7.5	0.73 0.67	5.43 1.54 5.46	77.4 51.9 77.7	11.95 1.47 38.38	0.74 0.70 18.31	11. 0. 20.
L	0	1421.4	222.9	323	1082 101	189				1292.7	1329.3	0.83	1.36	49.4 78.0	1.08	0.17	10.
ECTION	AGE	FISH/ SQ. H	ETTED		RT	FFLF		- :	POOL		WETTED OTAL WT (GM)		TTED LB/	RI	FFLE LB/	PC	
P. 16-1	19/74																
	0	A 45	2648	4	11.53	4666	3.2	0.49	280	07.7 18.0	389.3	1.04	9.25	18.28	163.03 79.15 66.61	1.10 0.53 1.11	9.1
I	Ô	0.10	3070	ŏ	1.72 5.85 0.48	694 2368 192	1.4	0.87	35	27.3	211.3	0.50 0.97 0.30	8.63	7.47	66.61	1.11	9.9
	Ó	0.06	249 5143	2 :	14.83	68099	7.3	1.37	55	86.4	65.7 374.0	1.51	2.69	2.32	20.72 178.39	0.35	14.
	Ō	0.12	4070	2	1.64 3.27 0.25 21.12	1324	0.3	0.13	58	43.3 76.8 57.5 09.7	162.9	0.66	5.87	8.71	77.70 35.50 13.76 270.36	0.71	15.
	0	1.30	.5264.	1	21.12	103 85452	2.6	0.11	56	57.5 09.7	90.8	0.47	16.65	1.54	270.36	0.68	17.
II	0	0.08		ô	1.36	549 5765 22	5.8	0.09	52	60.8 61.4 01.7	78.1 180.9 24.6	0.45 1.05 0.14	4.23 16.65 4.05 9.34 1.27	7.38 2.20 0.30	65.82 19.58 2.66	2.00	17:
L	0	0.92	3732.	7	5.88	23802 212	2.7	1.09	443		1786.6 626.0	1.26		8.02 2.81	71.50 25.05	1.49	13.3

programme sometimes

				SECT	10				95	PERCENT		MEAN	MEAN'	: * *: */		
		AREA (	SQ.M)	LEN			POP.	VAR.	CON			WEIGHT			FISH (S	
SECTION	AGE	WETTED	RIFFLE	(M)	61	C2	, N	N	LOW	ER UPPER	R P.	(GM)	(MM)	WETTED	RIFFLE	POOL
MAY 20-2	2/75															. :
II ·	0	480.9	140.7	73	247	70	. 345	96.	6 325	.0 364.3	0.72	0.64	40.8	1.40	0.41	0.98
	1				7	3	. 12	.17.	2 3	.9 20.6	0.57	2.28	58.7	39.26	11.49.	2777
III.	0	317.1	95.8		71	35	140					0.55	38.9	2.26	0.68	1.5
IV	0	344.3	123.4	45	337	109	498				0.68	0.60	40.1	0.69	0.25	: 0.4
	1				19	9	36				0.53	2.21	58.1	9.54	3.42	6.1
٧	0	305.8	120.6	45	51	39	217	17170.	7 -45	.3 478.8	0.24	0.54	. 40.1	1.41	0.56	0.8
	I				1	1						2.22	58.5			
VI	.0	360.8	72.0	56	85	30	131					0.52	39.9	2.75		2.20
	I				. 2	.1	. 4				0.50	2.31	58.7	90.20	18.00	72.2
VIII	0	432.5	194.2	66	88	15	106				0.83	0.52	39.7	4.08	1.83	2.2
*	1				2	. 0	2	0.	0 2	.0 2.0	1.00	1.57	51.5	216.25	97.10	119.1
ALL	0	2241.4	746.7	225	879	298	1330	709	7 1276	.6 1383.1	0.66	0.59	40.1	1.69	0.56	1.1
ALL	ĭ	2241.4	140.1	333	31	14	57		5 . 36		0.55	2.20	58.0		13.21	26.4
SECTION	AGE	FISH/			RI FISH/	FFLE FI AC	SH/	FISH/	FISH/	WETTED TOTAL WT (GM)				FFLE LB/ ACRE	GM/	LB/ ACR
MAY 20-2	2/75				-											
11	0	0.72	2900.	7	2.45	99	14.3	1.01	4100.3	221.5	0.46	4.11	1.57	14.05	0.65	5.8
	I	0.03			0.09		52.4	0.04	145.7	27.9	0.06	0.52	0.20	1.77		0.7
III	0	0.44	1787.	1	1.46		15.4		2560.7	77.1	0.24	2.17	0.80	7.18	0.35	3.1
IV	0	1.45	5854.	9	4.04	163	35.9	2.25	9125.6	301.1	0.87	7.80	2.44	21.77	1.36	12.10
	I	0.10	424:	3	0.29	11	83.9	0.16	661.4	79.8	0.23	2.07	0.65	5.77	0.36	3.2
V	0	.0.71	2868.	5	1.80	. 72	73.5	1.17	4736.4	116.0	0.38	3.38	0.96	8.58	0.63	5.5
	o	0.36	1473.	5	1.82	73	83.7	0.45	1840.8	68.7	0.19	1.70	0.95	8.52	0.24	2.1
VI	-	0.01			0.06		24.8	0.01	56.1	9.2	0.03		0.13	1.14		
VI.	I				0.55		10.7	0.45	1801.6	54.7	0.13		0.28	2.51		2.0
	0	0.25	. 332.					0.01	34.0	3.1	0.01		0.02	0.14		0.1
		0.25		7	0.01	•	41.7	0.01	34.0	0.1.			* ****	0.17	0.01	
VIII ALL			18.	1	1.78 0.08	72	07.6		3600.6	783.3 124.6	0.35	3.12		9.36	0.52	4.6

SECTION	AGE	AREA (	SQ.M)	SECT LEN (M)		C2	POP.	VA	R.	95 P CONF. LOWER		P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/ WETTED		.M) POOL
JULY 21-	24/75			*****							•	1.5					
II	0	371.9	39.5	78	244	32	281		8.3	275.1	286.6	0.87	1.34	49.7	1.32	0.14	. 1.18
	ī	3,1.5	. 00.0	, 0	18	2	20		0.4	19.0		0.89	5.25	76.0	18.37	1.95	16.41
III .	o	253.4	17.1	57	160	26	191		0.0	184.7		0.84	1.12	47.2	1.33	0.09	1.24
	I				13	1	14		0.1-	13.4		0.92	4.70	73.1	17.99	1.21	16.7
IV .	0	217.8	32.3	46		60	386		2.3	374,9		0.81	0.98	45.3	0.56	0.08	0.4
	I				4	8						*	3.63	67.3	,		
V	0	259.8	42.0	50	261	33	299		8.1	293.1	304.5	0.87	1.05	45.4	0.87	0.14	0.73
	I				9	. 2	12		1.5	9.1	14.0	0.78	4.03	70.7	22.45	3.63	18.8
VI .	0	250.2	19.3	52	247	57	321	. 4	6.2	307.5	334.7	0.77	1.20	47.8	0.78	0.06	0.72
	I ·				14	2 .	16		0.6	14.8	17.9	0.86	4.04	70.9	15.32	1.18	14.14
VIII	0 .	177.9	87.6	51	146	11	158		1.2	155.7	160.1	0.92	1.23	47.9	1.13	0.55	0.57
	I				2	0	2		0.0	2.0	2.0	1.00	4.02	71.0	88.95	43.80	45.15
ALL	0	1531.0	237.8	334	1370	219	1631	8	11.5	1612.6	1648.7	0.84	1.14	47.0	0.94	0.15	0.7
	I		20110			15	80		4.8	72.3			4.42	72.1	19.14		16.16
	,		VETTED	2,2	RI	FFLE	1	p	OOL		WETTED	ME.	TTED	RI	FFLE	PC	OL
SECTION	AGE	FISH/	FISH		FISH/			FISH/ SQ. M	FI		(GM)	GM/ SQ. M	LB/	GM/ SQ. M	LB/	SQ. M	LB/
									-								
JULY 21-	24/75																
JULY 21- II	24/75	0.76	3056	0	7.11	28772	. 6	0.84	341	19.1	375.4	1.01	9.00	9.50	84.78	1.13	10.0
		0.76			7.11	28772		0.84		19.1	375.4 106.3	1.01	9.00	9.50			
II	0	0.76	220.	4	0.51	2074	. 7	0.06	24	16.5	106.3	1.01 0.29 0.85	9.00 2.55 7.54		84.78 23.99 111.74	0.32	2.8
	0	0.05	220. 3051.	4			.7		327			0.29	2.55	2.69	23.99	0.32	8.0
111	0 1	0.05	220. 3051. 224.	1 9	0.51	2074 45213	.7	0.06	327 24	16.5	106.3	0.29	2.55 7.54	12.53	23.99 111.74 34.54	0.32 0.91 0.28	2.8 8.0 2.5
11 111 1V	0 I 0 I	0.05	220. 3051. 224.	1 9	0.51 11.17 0.82	2074 45213 3333	.7	0.06 0.81 0.06	327 24	16.5 71.9 11.2	106.3 214.2 66.2	0.29 0.85 0.26	2.55 7.54 2.33	2.69 12.53 3.87	23.99 111.74 34.54	0.32 0.91 0.28	2.81 8.01 2.50
11 111 1V	0 I 0 I 0	0.05	220. 3051. 224. 7 7177.	.4	0.51 11.17 0.82	2074 45213 3333	.7 .9 .1	0.06 0.81 0.06	327 24 842	16.5 71.9 11.2	106.3 214.2 66.2	0.29 0.85 0.26 1.74	2.55 7.54 2.33 15.51	2.69 12.53 3.87	23.99 111.74 34.54 104.62	0.32 0.91 0.28 2.04	2.81 8.09 2.50 18.23
11 111 111	0 1 0 1	0.05 0.75 0.06 1.77	220. 3051. 224. 7177. 4654.	9 .7	0.51 11.17 0.82 11.96	2074 45213 3333 48399	.7 .9 .1 .3	0.06 0.81 0.06 2.08	24 327 24 842 555	16.5 71.9 11.2 27.5	106.3 214.2 66.2 378.3	0.29 0.85 0.26 1.74	2.55 7.54 2.33 15.51	2.69 12.53 3.87 11.73 7.44 1.11	23.98 111.74 34.54 104.62 66,33 9.90	0.32 0.91 0.28 2.04	2.81 8.01 2.50 18.23 12.71 1.9
11 111 111	0 I 0 I 0	0.05 0.75 0.06 1.77	220. 3051. 224. 7177. 4654.	.4 .1 .9 .7	0.51 11.17 0.82 11.96	2074 45213 3333 48399 28789	.7 .9 .1 .3	0.06 0.81 0.06 2.08	327 24 842 555	16.5 71.9 11.2 27.5	106.3 214.2 66.2 378.8	0.29 0.85 0.26 1.74	2.55 7.54 2.33 15.51	2.69 12.53 3.87 11.73	23.99 111.74 34.54 104.62	0.32 0.91 0.28 2.04	2.81 8.01 2.50 18.23 12.71 1.9
11 111 v	0 1 0 1 0 1 0 1	0.05 0.75 0.06 1.77	220. 3051. 224. 7177. 4654. 180. 5193.	.4 .1 .9 .7	0.51 11.17 0.82 11.96 7.11 0.28	2074 45213 3333 48399 28789 1115	.7 .9 .1 .3	0.06 0.81 0.06 2.08 1.37 0.05	327 327 24 842 555 21 562	16.5 71.9 11.2 27.5 51.6	106.3 214.2 66.2 378.8 312.3 46.6	0.29 0.85 0.26 1.74 1.20 0.18	2.55 7.54 2.33 15.51 10.72 1.60	2.69 12.53 3.87 11.73 7.44 1.11	23.99 111.74 34.54 104.62 66.33 9.90 178.12 30.81	0.32 0.91 0.28 2.04 1.43 0.21 1.67 0.29	2.81 8.01 2.50 18.23 12.71 1.9 14.81 2.51
III V	0 1 0 1 0 1 0 1 0	0.05 0.75 0.06 1.77 1.15 0.04	220. 3051. 224. 7177. 4654. 180. 3 5193. 7 264.	1 .3 .8 .2	0.51 11.17 0.82 11.96 7.11 0.28 16.64	2074 45213 3333 48399 28789 1115 67331	.7 .9 .1 .3	0.06 0.81 0.06 2.08 1.37 0.05 1.39	327 24 842 555 21 562 28	16.5 71.9 11.2 27.5 51.6 15.0	106.3 214.2 66.2 378.8 312.3 46.6 385.4	0.29 0.85 0.26 1.74 1.20 0.18 1.54	2.55 7.54 2.33 15.51 10.72 1.60 13.74	2.69 12.53 3.87 11.73 7.44 1.11 19.97	23.99 111.74 34.54 104.62 66,33 9.90 178.12 30.51	0.32 0.91 0.28 2.04 1.43 0.21 1.67 0.29	2.81 8.01 2.50 18.23 12.71 1.9 14.81 2.51
III V	0 1 0 1 0 1 0 1	0.05 0.75 0.06 1.77 1.15 0.04 1.28 0.07	220. 3051. 224. 7177. 4654. 180. 35193. 264. 3591.	1 9 7 1 3 8 2 9	0.51 11.17 0.82 11.96 7.11 0.28 16.64 0.85	2074 45213 3333 48399 28789 1115 67331 3424	.7 .9 .1 .3 .2 .0 .2	0.06 0.81 0.06 2.08 1.37 0.05 1.39 0.07	327 24 842 555 21 562 28	46.5 71.9 41.2 27.5 51.6 15.0 27.9	106.3 214.2 66.2 378.8 312.3 46.6 385.4	0.29 0.85 0.26 1.74 1.20 0.18 1.54 0.26	2.55 7.54 2.33 15.51 10.72 1.60 13.74 2.35	2.69 12.53 3.87 11.73 7.44 1.11 19.97 3.42	23.99 111.74 34.54 104.62 66,33 9.90 178.12 30.51 19.76	0.32 0.91 0.28 2.04 1.43 0.21 1.67 0.29 2.18	2.81 8.01 2.50 18.23 12.71 1.9 14.81 2.51
11 111 111	0 1 0 1 0 1 0 1 0 1	0.05 0.75 0.06 1.77 1.15 0.04 1.28 0.07 0.89	5 220. 5 3051. 224. 7 7177. 5 4654. 180. 5 193. 7 264. 9 3591. 45.	.4 .1 .9 .7 .1 .3 .8 .2 .9 .5	0.51 11.17 0.82 11.96 7.11 0.28 16.64 0.85 1.80	2074 45213 3333 48399 28789 1115 67331 3424 7294	.7 .9 .1 .3 .2 .0 .2 .9 .6	0.06 0.81 0.06 2.08 1.37 0.05 1.39 0.07 1.75	24 327 24 842 555 21 562 28 707	46.5 71.9 41.2 27.5 51.6 15.0 27.9 36.3 76.5	106.3 214.2 66.2 378.3 312.3 46.6 385.4 66.0	0.29 0.85 0.26 1.74 1.20 0.18 1.54 0.26 1.09	2.55 7.54 2.33 15.51 10.72 1.60 13.74 2.35 9.73	2.69 12.53 3.87 11.73 7.44 1.11 19.97 3.42 2.22	23.99 111.74 34.54 104.62 66.33 9.90 178.12 30.51 19.76 0.82	0 .32 0 .91 0 .28 2 .04 3 1.43 0 0.21 1 .67 0 .29 5 0.09	10.07 2.88 8.09 2.50 18.22 12.78 1.89 14.88 2.58 19.17 0.78

		*		SECT						95 P	ERCENT		MEAN .	MEAN			
SECTION	AGE	AREA (		LEN		C2	POP.	VA	R	CONF.	LIMITS		WEIGHT	LENGTH		FISH (SC	).M)
PECITON	AGE	WEILIED	KIFFLE	(M)	. 61	62	N	, ,N		LOWER	UPPER		(GM)	(win)	WEITED	, RIFFLE	
MAY 18-2	0/76									•:	. **		4.				
I	0	408.7	40.6	76	1229	75	1309		6.2	1303.9	1313.9	0.94	0.53	39.9	0.31	0.03	0.2
	I.		7.13		34	2	36		0.2	35.3		0.94	3.05	65.4	11.31	1.12	10.1
11	0	376.9	47.5	55		143	752		9.1	727.6		0.74	0.52	39.9	0.50	0.06	0.4
	I				10	3	14		4.9	9.9	18.7	0.70	2.54	61.5	26.38	3.32	23.
V	0	294.3	94.2	36	626	184	887	. 28	1.6	.853.0	920.2	0.71	0.52	39.7	0.33	0.11	0.
	I				13	11	. 84	3067		-265.8		0.15	2.41	60.5	3.48	1.11	2.
	0.	283.3	70.6	46		113	684		2.8	666.8		0.79	0.57	40.0	0.41	0.10	0.
	I				19	.3.	23		1, 1.	20.5			2.79	63.3	12.56	3.13	9.
I	0	405.5	93.4	52		154	995		2.1		1013.5	0.81	,0.58	40.2	0.41	0.09	0.
III					11	0	11		0.0	11.0		1.00	2.62	62.4	36.86	8.49	28.
111	0	371.6	184.6	- 61		70	382		3.3	366.4		0.76	0.57	39.9	0.97	O.48	0.
	4				5	0	5		0.0	5.0	5.0	1.00	2.37	59.8	74.32	36.92	37.
LL	0	2140.3	530.9	326	4051	739	4955	35	6.8	4917.1	4992.7	0.82	0.54	39.9	0.43	0.11	0.
	1		4 4		92	19	116	1	1.9	109.0	122.9	0.79	2.73	62.9	18.46	4.58	13.
		W	ETTED		. PT	FFLE		·. p	DOL		WETTED	. WE	TTED	. 91	FFLE	Pr	OL
		FISH/	FISH	1/ .	FISH/		SHI/ .	FISH/			OTAL WT	GM/	LB/	GM/	LB/	· GM/	LB
ECTION	AGE	SQ. M	ACRE		SQ. M	ACF		SQ. M			(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	AC
AY 18-2	0/76	1.				,	3 3					**					1.77
I	0	3.20	12960.	6	32.24	13046		3.56	1439	0.4	690.3	1.69	15.07	47 00	151.66	4 00	16.
	1	0.09	357.		0.89		0.9	0.10		7.2	110.3	0.27	2.41	17.00	24.24		2.
II	ò	2.00	8075.		15.83	6407		2.28	923		392.2	1.04	9.28	8.26	73.65		10.
	I	0.04	153.		0.30		17.1	0.04		5.5	36.3	0.10	0.86	0.77	6.82		0.
V	Ö	3.01	12191.		9.41	3808		4.43	1793		456.7	1.55	13.84	4.85	43.25		20.
	I	0.29	1162.	0	0.90		10.3	0.42		9.0	203.3	0.69	6.16	2.16	19.25		9.
	0	2.41	9768.	7	9.69	3919		3.22	1301		392.3	1.38	12.35	5.56	49.57		16.
	I.	0.08	322.		0.32	129	3.3	0.11		9.3	62.9	0.22	1.98	0.89	7.95		2.
	0	2.45	9934.	7	10.66	4313	11.7	3.19	1290		579.9	1.43	12.76	6.21	55.38		16.
1	I	0.03	109.	-	0.12		6.6	0.04		2.6	28.9	0.07	0.63	0.31	2:76	0.09	0.
		1.03	4163.		2.07		10.6	2.04	827		216.7	0.58	5.20	1.17	10.47		10.
	0			and the same of th	0.03	10	9.6	0.03	10	8.2	11.8	0.03	0.28	0.06	0.57	0.06	0.
	I	0.01	54.	9	0.03			0.00									
I III .	0	2.32	9369.		9.33	3777		3.08	1245		2699.3	1.26	11.25	5.08	45.35		14.1

			SQ.M)		1	,	POP.	.,	VAR.	CONF			MEAN WEIGHT	MEAN LENGTH		FISH (SQ	
SECTION	AGE	WETTED	RIFFLE	(W)	C1	C2	N		N	LOWE	R UPPER	P	(GM)	(WM)	WETTED	RIFFLE	POOL
JULY 13-	15/76	,	5.75	,	*				17.	1. **			1			.,	
II	0	405.6	41.1	73	361	40	406		7.9	400.	4 411.6	0.89	1.14	46.9	1.00	0.10	0.90
••	1	400.0	41.1		33	4	. 38		0.9	35.		0.88	4.58	72.8	10.80	1.09	9.71
III	ò	359.3	89.4	. 15.15		37	330		9.3	324.		0.87	1.02	45.5	1.09	0.27	0.82
	T		. 00.4.		32	2	34		0.2	33.		0.94	4.14	69.6	10.53	2.62	7.91
IV	0 .	265.6	87.0	36		64	335		67.9	318.		0.74	0.92	44.3	0.79	0.26	0.53
• •	ī		00		5	1	6		0.6	4.		0.80	4.27	70.8	42.50	13.92	28.58
V	0	272.7	58.9	. 47		63	451		25.8	440.		0.83	0.73	42.0	0.61		0.47
	I				17	1.	18		0.1				3.50	68.2	15.10	3.26	11.84
VI	0	412.3	60.5	55		33	325		6.9	320.			. 0.89	44.7	1.27	0.19	1.08
.,=	ī				21	3	25		0.9			0.86	3.86	70.4	16.83		.14.36
VIII	0 .	312.8	156.1	60		28	196		12.1	188.		0.83	0.80	43.0	1.60	0.80	0.80
	1				4	1	. 5		1.0			0.75	4.93	76.4	.58.65	29.27	29.38
ALL	0	2028.3	493.0	326	1723	265	2036		91.7	2017	0 2055.3	0.85	0.92	44.5	1.00	0.24	0.75
	ĭ	2020.0	400.0	. 020	112	12	125		2.2	122.		0.89	4.16	70.8	16.17	3.93	12.24
			ETTED		14.4	FFLE			POOL		WETTED	ME	TTED	RI	FFLE	PC	UL .
SECTION	AGE	FISH/ SQ. M	FISH - ACRE		FISH/		SH/ RE	FISH	4/	FISH/ ACRE	TOTAL WT	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/	LB/
•		FISH/	FISH		FISH/	FI			4/		TOTAL WT	GM/	LB/	GM/	LB/	GM/	LB/ ACRE
JULY 13-		FISH/ SQ. M	FISH ACRE		FISH/ SQ. M	F1	RE	so.	M	ACRE	TOTAL WT	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	ACRE	GM/ SQ. M	LB/ ACRE
•		FISH/ SO. M	FISH ACRE	8	FISH/ SQ. M	71 AC	76.1	1.	M	507.6	TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	100.68	GM/ SQ. M.	LB/ ACRE
JULY 13-		FISH/ SQ. M	4050.	8 7	FISH/ SQ. M 9.88 0.91	399 36	76.1 97.6	1.	M 11 4	507.6 416.9	TOTAL WT (GM) 463.9	GM/ SQ. M	10.20 3.78	GM/ SQ. M	LB/ ACRE 100.68 37.31	GM/ SQ. M	11.35 4.21
JULY 13-	15/76 O I	1.00 0.09 0.92	4050. 374. 3722.	8 7	9.88 0.91 3.70	399 36:	76.1 97.6 59.2	1.0.1.1	11 4 10 22 4	507.6 416.9 955.0	TOTAL WT (GM)  463.9 171.9 335.5	GM/ SQ. M 1.14 0.42 0.93	10.20 3.78 8.33	GM/ SQ. M 11.29 4.18 3.75	LB/ ACRE 100.68 37.31 33.48	GM/ SQ. M. 1.27 0.47 1.24	11.35 4.21
JULY 13-	15/76 0 I	FISH/ S0. M	4050.	8 7 1 5	9.88 0.91 3.70 0.38	399 36: 149: 15	76.1 97.6 59.2 45.2	1.	11 41 10 4 12 41	507.6 416.9 955.0	TOTAL WT (GM)  463.9 171.9 335.5 141.2	GM/ 5Q. M 1.14 0.42 0.93 0.39	10.20 3.78 8.33 3.50	GM/ SQ. M	LB/ ACRE 100.68 37.31	GM/ SQ. M. 1.27 0.47 1.24 0.52	11.35 4.21 11.09 4.67
III III JULY 13-	15/76 0 I 0 I	1.00 0.09 0.92 0.09	4050. 374. 3722.	8 7 1 5	9.88 0.91 3.70	399 36: 149: 15:	76.1 97.6 59.2	1.0.1.0.	11 41 10 4 13 13 18 7	507.6 416.9 955.0	TOTAL WT (GM)  463.9 171.9 335.5	GM/ SQ. M 1.14 0.42 0.93	10.20 3.78 8.33	GM/ SQ. M 11.29 4.18 3.75 1.58	100.68 37.31 33.48	GM/ SQ. M. 1.27 0.47 1.24 0.52 1.73	11.35 4.21 11.09 4.67
III III JULY 13-	15/76 0 I 0 I	1.00 0.09 0.92 0.09 1.26	4050. 374. 3722. 384. 5106.	8 7 1 5 6 2	9.88 0.91 3.70 0.38 3.85	399 36: 149: 15:	76.1 97.6 59.2 45.2 89.8	1.0.1.1	11 41 10 22 41 13 198 71	507.6 416.9 955.0 511.8 594.1	TOTAL WT (GM)  463.9 171.9 335.5 141.2 309.5	GM/ SQ. M 1.14 0.42 0.93 0.39 1.17	10.20 3.78 8.33 3.50 10.39 0.90	GM/ SQ. M 11.29 4.18 3.75 1.58 3.56	100.68 37.31 33.48 14.09	GM/ SQ. M. 1.27 0.47 1.24 0.52 1.73 0.15	LB/
JULY 13- III IV	15/76 0 I 0 I 0 I	1.00 0.09 0.92 0.09 1.26 0.02	4050. 374. 3722. 384. 5106.	8 7 1 5 6 2 9	9.88 0.91 3.70 0.38 3.85 0.07	399 36: 149: 15: 155: 2: 309:	76.1 97.6 59.2 45.2 89.8	1. 0. 1. 0.	11 41 10 4 13 1 13 1 13 7 13 1 11 8	507.6 416.9 955.0 511.8 594.1	463.9 171.9 335.5 141.2 309.5 26.7	GM/ SQ. M 1.14 0.42 0.93 0.39 1.17 0.10	10.20 3.78 8.33 3.50 10.39 0.90	GM/ SQ. M 11.29 4.18 3.75 1.58 3.56 0.31	100.68 37.31 33.48 14.09 31.73	GM/ SQ. M. 1.27 0.47 1.24 0.52 1.73 0.15 1.53	11.35 4.21 11.09 4.67 15.46 1.33
JULY 13-	15/76 0 I 0 I 0 I	1.00 0.09 0.92 0.09 1.26 0.02	4050. 374. 3722. 384. 5106. 95. 6688.	8 7 1 5 6 2 9	9.88 0.91 3.70 0.38 3.85 0.07 7.65	399 360 149 155 2309 12	76.1 97.6 59.2 45.2 89.8 90.7 68.9	1. 0. 1.: 0. 1.: 0. 2.	11 41 10 22 41 13 13 13 15 13 16 13 16 14 81	507.6 416.9 955.0 511.8 594.1 141.6	463.9 171.9 335.5 141.2 309.5 26.7 328.0	GM/ SQ. M 1.14 0.42 0.93 0.39 1.17 0.10 1.20	10.20 3.78 8.33 3.50 10.39 0.90 10.73 2.07	GM/ SQ. M 11.29 4.18 3.75 1.58 3.56 0.31 5.57	100.68 37.31 33.48 14.09 31.73 2.74 49.68	GM/ 5Q. M. 1.27 0.47 1.24 0.52 1.73 0.15 1.53	LB/ ACRE 11.35 4.21 11.09 4.67 15.46 1.33 13.69 2.64
JULY 13- III IV V	15/76 0 I 0 I 0 I 0 I	1.00 0.09 0.92 0.09 1.26 0.02 1.65 0.07 0.79	4050 374 3722 384 5106 95 6688 268 268 240	8 7 1 5 6 2 9 1 7 5	9.88 0.91 3.70 0.38 3.85 0.07 7.65 0.38 0.40	399 366 149 155 155 2 3090 122 217	76.1 97.6 59.2 45.2 890.7 68.9 41.1 58.2 38.9	1. 0. 1. 0. 1. 0. 2. 0.	11 41 10 22 41 13 13 13 88 71 03 11 81 08 392 3	507.6 416.9 955.0 511.8 594.1 141.6 531.7 941.9	463.9 171.9 335.5 141.2 309.5 26.7 328.0 63.2	GM/ SQ. M 1.14 0.42 0.93 0.39 1.17 0.10 1.20 0.23	10.20 3.78 8.33 3.50 10.39 0.90 10.73 2.07 6.25 2.04	GM/ SQ. M 11.29 4.18 3.75 1.58 3.56 0.31 5.57 1.07 4.78 1.56	100.68 37.31 33.48 14.08 31.73 2.74 49.68 9.58 42.59	GM/ 5Q. M. 1.27 0.47 1.24 0.52 1.73 0.15 1.53 0.30 0.82 0.27	11.35 4.21 11.09 4.67 15.46 1.33 13.69 2.64 7.32
JULY 13- III IV V	15/76 0 1 0 1 0 1 0 1	1.00 0.09 0.92 0.09 1.26 0.02 1.65 0.07 0.79 0.06	4050. 374. 3722. 384. 5106. 95. 6688. 268.	8 7 1 5 6 2 9 1 7 5	9.88 0.91 3.70 0.38 3.85 0.07 7.65 0.31 5.38 1.25	399 366 149 155 155 2: 309 12: 217: 166 50	76.1 97.6 59.2 45.2 89.8 90.7 68.9 41.1 38.9 77.6	1. 0. 1. 0. 1. 0. 0. 1. 0. 0. 0. 0.	111 41110 4113 113 113 113 113 113 113 113 113 11	507.6 416.9 955.0 5594.1 141.6 531.7 341.9 741.8 281.8	463.9 171.9 335.5 141.2 309.5 26.7 328.0 63.2 288.9 94.5	GM/ SQ. M 1.14 0.42 0.93 0.39 1.17 0.10 1.20 0.23 0.70 0.23 0.50	10.20 3.78 8.33 3.50 10.39 0.90 10.73 2.07 6.25 2.04 4.45	GM/ SQ. M 11.29 4.18 3.75 1.58 3.56 0.31 5.57 1.07 4.78 1.56	100.68 37.31 33.48 14.09 31.73 2.74 49.68 9.58 42.59 13.84 8.92	GM/ 50. M	11.35 4.21 11.09 4.67 15.46 1.33 13.69 2.64 7.32 2.40 6.89
JULY 13- III IV V	15/76 0 I 0 I 0 I 0 I	1.00 0.09 0.92 0.09 1.26 0.02 1.65 0.07 0.79	4050 374 3722 384 5106 95 6688 268 268 240	8 7 1 5 6 2 9 1 7 5 9	9.88 0.91 3.70 0.38 3.85 0.07 7.65 0.38 0.40	399 366 149 155 155 2: 309 12: 217: 166 50	76.1 97.6 59.2 45.2 890.7 68.9 41.1 58.2 38.9	1. 0. 1. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	111 41110 4113 113 113 113 113 113 113 113 113 11	ACRE 507.6 416.9 955.0 511.8 594.1 141.6 531.7 341.9 741.8 281.8	463.9 171.9 335.5 141.2 309.5 26.7 328.0 63.2 288.9 94.5	GM/ SQ. M 1.14 0.42 0.93 0.39 1.17 0.10 1.20 0.23 0.70 0.23	10.20 3.78 8.33 3.50 10.39 0.90 10.73 2.07 6.25 2.04	GM/ SQ. M 11.29 4.18 3.75 1.58 3.56 0.31 5.57 1.07 4.78 1.56	100.68 37.31 33.48 14.09 31.73 2.74 49.68 9.58 42.59 13.84 8.92	GM/ 50. M	11.35 4.21 11.09 4.67 15.46 1.33 13.69 2.64 7.32 2.40 6.89
JULY 13- III IV	15/76 0 1 0 1 0 1 0 1	1.00 0.09 0.92 0.09 1.26 0.02 1.65 0.07 0.79 0.06	4050. 374. 3722. 384. 5106. 6688. 268. 3192. 240. 2533.	8 7 1 5 6 2 9 1 7 5 9 0	9.88 0.91 3.70 0.38 3.85 0.07 7.65 0.31 5.38 1.25	399 360 149 155 155 22 309 12 217 166 500	76.1 97.6 59.2 45.2 89.8 90.7 68.9 41.1 38.9 77.6	1. 0. 1. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	11 41 10 222 4133 1888 7533 8537 5533	507.6 416.9 955.0 5594.1 141.6 531.7 341.9 741.8 281.8	463.9 171.9 335.5 141.2 309.5 26.7 328.0 63.2 288.9 94.5	GM/ SQ. M 1.14 0.42 0.93 0.39 1.17 0.10 1.20 0.23 0.70 0.23 0.50	10.20 3.78 8.33 3.50 10.39 0.90 10.73 2.07 6.25 2.04 4.45	GM/ SQ. M 11.29 4.18 3.75 1.58 3.56 0.31 5.57 1.07 4.78 1.56	100.68 37.31 33.48 14.09 31.73 2.74 49.68 9.58 42.59 13.84 8.92	GM/ 50. M. 1.27 0.47 1.24 0.52 1.73 0.15 1.53 0.30 0.82 0.27 1.00 0.17	11.35 4.21 11.09 4.67 15.46

								1-1		*	- 4						
SECTION	AGE	AREA (	SQ.M)	SECT LEN (M)		C2	POP.	VA N		95 CONF LOWE			MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/ WETTED	FISH (SQ RIFFLE	POOL
MAY 16-1	9/77		e e e e e								- 1				·		
II	0	368.6	20.3	72	102	.28	141		6.5	128.		0.73	0.94	44.7.	2.62	0.14	2.48
111	0	327.0	61.3	55		12	132			129.	5 135.2	0.90	0.93	44.5	2.47	0.46	2.01
IV	0	360.3	81.1	56		44	231	4	6.1	217.	5 . 244 . 7	0.74	0.98	45.3	1.56	0.35	1.21
v ·	0	338.1	. 0.0	. 50		70	417	. 4	7.4	403. 25.	2 430.8	0.79	0.80	43.0	0.81	0.00	0.81
VI	0.	382.4	67.8	50		157	661	60	6.4	611.	5 710.0	0.61	0.64	40.0	0.58	0.10	0.48
VIII	0 .	465.7	264.6	80	181	74	306	34	9.0	268.	8 343.5	0.59	0.56	38.1 65.5	1.52	0.86 28.94	0.66
ALL ·	0	2242.1	495.1	363	1306	385 19	1852		4.2		2 1900.7 7 110.0		0.75	41.8 68.9	1.21 22.13	0.27	0.94
		W	ETTED		RI	FFLE		.Р	OOL		WETTED	WE	TTED	RÍ	FFLE	PO	OOL
SECTION	AGE	FISH/ SQ. M	FISH		FISH/ SQ. M	FI:	SH/ RE	FISH/		ISH/	TOTAL WT	GM/ SQ. M	ACRE	GM/ SQ. M	ACRE	GM/ SQ. M	LB/
MAY 16-1	9/77		+	4									7			7	
II	0 .	0.38	1543.	6	6.93	280	28.9	0.40	16	33.6	132.1.	0.36	3.20	6.51	58.04	0.38	3.38
	I.	. 0.04	179.		0.80		56.2	0.05		89.8	68.9	0.19	1.67	3.39			1.76
III	0	0.40	1637.		2.16		37.4	0.50		15.8	122.8	0.38	3.35	2.00			4.12
IV	0	0.04	149. 2596.		0.20		98.8	0.05		84.3 50.2	50.4 225.8	0.15	1.37	2.78			1.69
**	ī	0.10	404.		0.44		96.4	0.13		21.8	116.9	0.32	2.89	1.44			3.73
V	o	1.23	4991.		0.00		0.0	1.23		91.3	332.7	0.98	8.78	0.00			8.78
	1	0.08	328.		0.00		0.0	0.08		28.3	114.8	0.34	3.03	0.00			3.03
VI	0	1.73	6993.		9.75		12.9	2.10		00.4	423.7	1.11	9.88	6.25			12.01
	1	0.02	96.		0.13		15.7	0.03	1	17.6	23.1	0.06	0.54	0.34			0.65
VIII	0	0.66	2660.		1.16		32.9	1.52		61.6	171.6	0.37	3.29	0.65			7,61
,	I	0.02	79.	5	0.03	. 13	39.8	0.05	. 11	84.0	29.3	0.06	0.56	0.11	0.99	0.15	1.30
	0	0.83	3342.		3.74	464	20.0	4 00	40	20.4	1000 0	0.00		0.00	08 44	0.00	7.13
A11			3342.	65	3.14	151;	98.0	1.06	421	90.1	1396.3	0.62	5.56	2.82	25.1€	0.80	1.13
ALL	ĭ	0.05	182.		0.20		28.3	0.06		34.7	371.9	0.17	1.48	0.75	6.70	0.21	1.90

				SECT						95 F	PERCENT		MEAN	MEAN			
SECTION	AGE	WETTED		LEN		C2	POP.		VAR.		LIMITS		WEIGHT (GM)	LENGTH (MM)		FISH (SO	P(0
	04/22				1.			¥		-							:
JULY 19-		374.3	7.0	-	440	400	100						2.48	59.6	2.87	0.05	2 8
11	0	3/4.3	7.0	69	113	15	130		4.0	126.3		0.87		.77.0	24.83	0.46	24 3
III	ò	336.9	52.5	55	111	15	128		4.1	124.3		0.93	5.22	58.7	2.62	0.41	2 2
	1	336.9	52.5	33	18	4	23		3.0	19.7		0.78	4.53	73.4	14.56	2.27	12 2
IV	ò	394.8	95.2	57	175	29	210		11.6	203.0		0.83	2.08	56.4	1.88	0.45	1 4
	ĭ	334.0	95.2	37	24	5	30		3.2	26.7		0.79	5.10	76.3	13.02	3.14	9 8
V	ò	349.5	0.0	50		33	517		3.2	513.8		0.93	1.99	54.0	0.68	0.00	0 6
	ī	040.5	0.0	30	23	4	28		1.8			0.83	5.34	77.7	12.55	0.00	12 5
VI	ō	393.9	60.2	49		66	432		33.9	420.6		0.81	1.53	49.2	0.91	0.14	07
2.	Ť	000.0		70	14	1	15		0.1	14.4		0.93	4.32	71.3	26.13	3.99	22 1
IIIV	0	469.7	227.4	75		32	245		11.2	238.2		0.85	1.56	49.3	1.92	0.93	0.9
	1				13	5	21		18.6	12.5		0.62	4.67	73.6	22.23	10.76	114
ALL	0	2319.1	442.3	355	1439	190	1658		50.0	1643.8	1672.1	0.87	1.89	53.2	1.40	0.27	1 13
	I		,	٠٠,	106	20	131		10.4		137.1		4.91	75.2	17.75	3.39	14 36
			VETTED		RI	FFLE			POOL		WETTED	WE	TTED	RII	FLE	PC	DOL
-		FISH/		4/ 1	FISH/	FISH	4/	FISH			TOTAL WT	GM/	LB/	GM/	LB/	GM/	LI/
SECTION	AGE	SQ. N	ACRE		5Q. M	ACRE		SQ.		CRE			ACRE	SQ. M	ACRE	SQ. M	AIRI
JULY 19-	21/77									5 11	- 1	-					
II	0	0.35	1408	8	18.61	75329	7.7	0.3	5 44	135.6	322.9	0.86	7.70	46.13	411.52	0.88	784
	. 1	0.04	163.	0	2.15	8716	6.6	0.0	4 1	166.1	78.7	0.21	1.88	11.25	100.34	0.21	19
III	0	0.38	1541.	7	2.44	9893	1.5	0.4	5 18	326.3	300.0	0.89	7.94	5.71	50.98	1.05	94
	I	0.07	278.	0	0.44	1784	1.0	0.0	8 3	129.3	104.8	0.31	2.78	2.00	17.81	0.37	3 28
V	0	0.53	2150.	2	2.20	8917	1.0	0.7	0 28	333.4	436.2	1.10	9.86	4.58	40.87	1.46	1299
	1	0.08			0.32	1288		0.1	0 4	109.5	154.5	0.39	3.49	1.62	14.47		4 60
/	0	1.48		5	0.00	(	0.0	1.4	8 59	991.5	1031.2	2.95	26.32	0.00	0.00		26 32
	1	0.08			0.00		0.0	0.0		322.4	148.6	0.43	3.79	0.00	0.00		378
	0	.1.10			7.18	29060		1.3		242.6	663.2	1.68	15.02	11.02	98.26		1773
/1	· I	0.04			0.25	1013		0.0		82.8	65.1	0.17	. 1.48	1.08	9.65		174
			2109.	7	1.08	4357		1.0		89.6	381.1	0.81	7.24	1.68	.14.95		1403
_	0	0.52									00 7		1.87	0.43			363
		0.52			0.09	376	.0	0.0	9 3	352.8	98.7	0.21	1.07	0.43	3.87	0.41	300
/I /III	0		182.	0	0.09	15169		0.0		52.8 575.0	3128.6	1.35	12.03	7.07	63.10		1487

AGE		SQ.M)	LEN		C2	POP.		VAR.	CON	F. LIM	ITS	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	WETTED	RIFFLE	POOL
29/77												٠.,		* *			1.
0	404.5	19.8	66	82	14			5.9					3.21 6.26	66.2	4.09	0.20	9.89
0	349.1	74.5	55	67	24	104		68.8	87			-	3.11	65.6	3.34	3.53	13.00
0	378.6	91.3	54	149	15	166		2.5	162	.5 168	.9 0.	90	2.60	61.8	2.29 .	0.55	1.73
0	349.0	13.0	50	379	29	410		3.3	406	.8 414	.0 0.1	92	2.36	59.5	0.85	0.03	0.82
0	426.7	80.6	56	256	59	333		47.7	318	.9 346	.5 0.	77.	2.03	56.5	1.28	0.24	1.04
0	439.0	209.9	76	118	14	134		3.1	130	.4. 137	4 0.1	88	2.21 5.74	58.2 79.7	3.28 29.12	1.57	1.71
0	2346.9	489.1			155 17			49.7					2.42 5.86	59.9 80.1	1.90	0.40	1.51
	W	ETTED		RI	FFLE	,		POOL		WETTE	D	WET	TED	RII	FLE	PO	OL
AGE													LB/ ACRE	SQ. M	LB/ ACRE	GM/ SQ. M	ACRE
29/77															111		
0				4.99									7.00	16.04	143:10	0.83	7.37
0	0.30	1210.	2	1.40	567	1.0	0.38	3 -19	538.6	324.	4 0	.93	8.29	4.35	38.84	1.18	10.54
0	0.44	1771.	0	1.81	734	4.0	0.58	3 2	333.8	430.	6 1	. 14	10.15	4.72	42.07	1.50	4.06 13.37 5.63
0	1.18	4759.	0 :	31.57	12776	2.0	1.23	2 4	943.2	970.	5 2	.78	24.80	74.65	665.90	2.89	25.76
0	0.78	3155.	2	4.13	1670	3.7	0.96	3 3	390.0	676.	7 1	. 59	14.15	8.40	74.89	1.96	17.44
O	0.30	1234.	2	0.64	258	1.4	0.58	3 2	365.0	295.	4 0	.67	6.00	1.41	12.55	1.29	11.50
	29/77 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	AGE WETTED  29/77 O 404.5 I 349.1 O 378.6 I 0 349.0 I 0 426.7 I 0 439.0 I 0 2346.9 I 0 0.30 O 0.44 I 0 0.30 O 0.44 I 0 0.60 O 0.44 I 0 0.60 O 0.78 I 0 0.78 I 0 0.30 O 0.78 I 0 0.30	AGE ACEA (SQ.M) AGE WETTED RIFFLE  29/77 O 404.5 19.8 I 0 349.1 74.5 I 0 378.6 91.3 I 0 349.0 13.0 I 0 426.7 80.6 I 0 439.0 209.9 I 0 2346.9 489.1 I 0 0 2346.9 489.1 I 0 10 389.0 O 0.30 1210.0 O 0.44 1771.1 I 0.09 345.0 O 0.44 1771.1 I 0.09 345.0 O 1.18 4759.1 O 0.78 3155.1 O 0.48 180.0 O 0.30 1234.	AREA (SQ.M) AGE WETTED RIFFLE (M)  29/77 O 404.5 19.8 66 I 0 349.1 74.5 55 I 0 378.6 91.3 54 I 0 349.0 13.0 50 I 0 426.7 80.6 56 I 0 439.0 209.9 76 I 0 2346.9 489.1 357 I WETTED FISH/ FISH/ AGE SQ. M ACRE  29/77 O 0.24 989.3 I 0.10 389.1 O 0.30 1210.2 I 0.06 244.9 O 0.44 1771.0 I 0.09 345.8 O 1.18 4759.0 I 0.06 223.4 O 0.78 3155.2 I 0.04 180.8 O 0.30 1234.2	AGE WETTED RIFFLE (M) C1  29/77  O	AGE WETTED RIFFLE (M) C1 C2  29/77  O 404.5 19.8 66 82 14  I 33 5  O 349.1 74.5 55 67 24  I 13 5  O 378.6 91.3 54 149 15  I 29 3  O 349.0 13.0 50 379 29  I 17. 2  O 426.7 80.6 56 256 59  I 38 1  O 439.0 209.9 76 118 14  I 14 1  O 2346.9 489.1 357 1051 155  I 14 17  WETTED RIFFLE FISH/ FISH/ FISH/ FISH AGE SQ. M ACRE SQ. M ACRE  29/77  O 0.24 989.3 4.99 2021  I 0.10 389.1 1.96 7940  O 0.30 1210.2 1.40 567  I 0.06 244.9 0.28 114  O 0.44 1771.0 1.81 734  I 0.09 345.8 0.35 143  O 1.18 4759.0 31.57 12776  I 0.06 223.4 1.48 599  O 0.78 3155.2 4.13 1670  I 0.06 223.4 1.48 599  O 0.78 3155.2 4.13 1670  I 0.06 223.4 1.48 599  O 0.78 3155.2 4.13 1670  I 0.06 1234.2 0.64 258	AREA (SQ.M) LEN POP.  AGE WETTED RIFFLE (M) C1 C2 N  29/77  O 404.5 19.8 66 82 14 99 I 33 5 39 O 349.1 74.5 55 67 24 104 I 13 5 21 O 378.6 91.3 54 149 15 166 I 29 3 32 O 349.0 13.0 50 379 29 410 I 17 2 19 O 426.7 80.6 56 256 59 333 I 8 1 19 O 439.0 209.9 76 118 14 134 I 1 15 O 2346.9 489.1 357 1051 155 1233 I 141 1 15  O 2346.9 489.1 357 1051 155 1233 I 124 17 144  WETTED RIFFLE FISH/ FISH/ FISH/ FISH/ FISH/ SQ. M ACRE  29/77 O 0.24 989.3 4.99 20211.0 I 0.10 389.1 1.96 7949.5 O 0.30 1210.2 1.40 5671.0 I 0.06 244.9 0.28 1147.6 O 0.44 1771.0 1.81 7344.0 I 0.09 345.8 0.35 1433.8 O 1.18 4759.0 31.57 12762.0 I 0.06 223.4 1.48 5997.9 O 0.78 3155.2 4.13 16703.7 I 0.04 180.8 0.24 957.0 O 0.30 1234.2 0.64 2581.4	AGE WETTED RIFFLE (M) C1 C2 N  29/77  O 404.5 19.8 66 82 14 99 I 33 5 39 O 349.1 74.5 55 67 24 104 I 13 5 21 O 378.6 91.3 54 149 15 166 I 29 3 32 O 349.0 13.0 50 379 29 410 I 17. 2 19 O 426.7 80.6 56 256 59 333 I 18 1 19 O 439.0 209.9 76 118 14 134 I 15 O 2346.9 489.1 357 1051 155 1233 I 14 17 144  WETTED RIFFLE FISH/ FISH/ FISH/ FISH/ FISH/ AGE SQ. M ACRE SQ. M ACRE SQ. M  O 0.30 1210.2 1.40 5671.0 0.36 I 0.06 244.9 0.28 1147.6 0.00 O 0.44 1771.0 1.81 7344.0 0.51 I 0.09 345.8 0.35 1433.8 0.1 O 1.18 4759.0 31.57 127762.0 1.22 I 0.06 223.4 1.48 5997.9 0.06 O 0.78 3155.2 4.13 16703.7 0.96 I 0.04 180.8 0.24 957.0 0.06 O 0.30 1234.2 0.64 2581.4 0.56	AGE WETTED RIFFLE (M) C1 C2 N N N  29/77  O 404.5 19.8 66 82 14 99 5.9 I 33 5 39 1.7 O 349.1 74.5 55 67 24 104 68.8 I 13 5 21 18.6 O 378.6 91.3 54 149 15 166 2.5 I 29 3 32 0.5 O 349.0 13.0 50 379 29 410 3.3 I 17. 2 19 0.4 O 426.7 80.6 56 256 59 333 47.7 I 18 1 19 0.1 O 439.0 209.9 76 118 14 134 3.1 I 14 1 15 0.1  O 2346.9 489.1 357 1051 155 1233 49.7 I 1 14 1 15 0.1  WETTED RIFFLE POOL FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ AGE SQ. M ACRE	AREA (SQ.M) LEN POP. VAR. CONING  29/77  O 404.5 19.8 66 82 14 99 5.9 94 1 33 5 39 1.7 36 1 13 5 21 18.6 12 13 5 21 18.6 12 13 5 21 18.6 12 13 5 21 18.6 12 14 15 166 2.5 162 1 29 3 32 0.5 30 1210.2 1.4 15 166 2.5 162 1 1 17 2 19 0.4 17 0 426.7 80.6 56 256 59 333 47.7 318 1 18 1 19 0.1 18 1 19 0.1 18 1 19 0.1 18 1 19 0.1 18 1 19 0.1 18 1 19 0.1 18 1 19 0.1 18 1 19 0.1 18 1 19 0.1 18 1 19 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 1 15 0.1 14 15 0.1 14 1 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 15 0.1 14 1	AGE WETTED RIFFLE (M) C1 C2 N N LOWER UP  29/77  O 404.5 19.8 66 82 14 99 5.9 94.0 103  I 33 5 39 1.7 36.3 41  O 349.1 74.5 55 67 24 104 68.8 87.8 121  I 13 5 21 18.6 12.5 29  O 378.6 91.3 54 149 15 166 2.5 162.5 168  I 29 3 32 0.5 30.9 33  O 349.0 13.0 50 379 29 410 3.3 406.8 414  I 17 2 19 0.4 17.9 20  O 426.7 80.6 56 256 59 333 47.7 318.9 346  I 18 1 19 0.1 18.5 19  O 439.0 209.9 76 118 14 134 3.1 130.4 137  I 14 1 15 0.1 14.4 15  O 2346.9 489.1 357 1051 155 1233 49.7 1218.7 1246  I 1 124 17 144 4.8 139.3 148  WETTED RIFFLE POOL WETTEL FISH/ FISH/ FISH/ FISH/ FISH/ FOTAL SQ. M ACRE (GM)  29/77  O 0.24 989.3 4.99 20211.0 0.26 1040.2 317.  I 0.10 389.1 1.96 7949.5 0.10 409.1 243.  O 0.30 1210.2 1.40 5671.0 0.38 1538.6 324.  I 0.06 244.9 0.28 1147.6 0.08 311.3 125.  O 0.44 1771.0 1.81 7344.0 0.58 2333.8 430.  I 0.09 345.8 0.35 1433.8 0.11 455.6 181.  O 1.18 4759.0 31.57 127762.0 1.22 4943.2 970.  I 0.06 223.4 1.48 5997.9 0.06 232.1 112.  O 0.78 3155.2 4.13 16703.7 0.96 3890.0 676.  I 0.04 180.8 0.24 957.0 0.06 222.9 105.  O 0.30 1234.2 0.64 2581.4 0.58 2365.0 295.	AREA (SQ.M) LEN COMP. VAR. CONF. LIMITS NOTAL WITTED RIFFLE (M) C1 C2 N N N LOWER UPPER  29/77  0 404.5 19.8 66 82 14 99 5.9 94.0 103.7 0.1 33 5 39 1.7 36.3 41.5 0.1 1 35 21 18.6 12.5 29.7 0.1 1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 18.6 12.5 29.7 0.1 17.2 19 0.4 17.9 20.6 0.1 17.2 19 0.4 17.9 20.6 0.1 17.2 19 0.4 17.9 20.6 0.1 17.2 19 0.4 17.9 20.6 0.1 18.1 19.0 0.1 18.5 19.6 0.1 18.1 19.0 0.1 18.5 19.6 0.1 18.1 19.0 0.1 18.5 19.6 0.1 18.1 19.0 0.1 18.5 19.6 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 0.1 14.4 15.7 14.4 14.8 139.3 148.1 0.1 14.4 15.7 14.4 14.8 139.3 148.1 0.1 14.4 15.7 14.4 14.8 139.3 148.1 0.1 14.4 15.7 14.4 14.8 139.3 14.4 0.1 14.4 14.8 139.3 14.4 14.8 139.3 14.4 0.1 14.4 14.8 139.3 14.4 14.8 139.3 14.4 14.8 139.3 14.4	AREA (SQ.M) LEN POP. VAR. CONF. LIMITS N LOWER UPPER P.  29/77  O 404.5 19.8 66 82 14 99 5.9 94.0 103.7 0.83 I 33 5 39 1.7 36.3 41.5 0.85 I 33 5 39 1.7 36.3 41.5 0.85 I 33 5 21 18.6 12.5 29.7 0.62 I 29 3 32 0.5 30.9 32.8 0.90 I 29 3 32 0.5 30.9 32.8 0.90 O 349.0 13.0 50 379 29 410 3.3 406.8 414.0 0.92 I 17. 2 19 0.4 17.9 20.6 0.88 I 17. 2 19 0.4 17.9 20.6 0.88 I 18.6 12.5 19.6 0.94 I 19.0 0.1 18.5 19.6 0.94 I 19.0 0.1 14.4 15.7 0.93 I 14.4 15.7 0.93 I 18.4 139.3 148.1 0.86 I 19.0 0.1 18.5 19.6 0.94 I 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1 19.0 0.1	AREA (SQ.M) LEN POP. VAR. CONF. LIMITS WEIGHT (GM)  29/77  0	AREA (SQ.M) LEN POP. VAR. CONF LIMITS WEIGHT LENGTH AGE WETTED RIFFLE (M) C1 C2 N N LOWER UPPER P (GM) (MM).  29/77  O 404.5 19.8 66 82 14 99 5.9 94.0 103.7 0.83 3.21 66.2  I 33 5 39 1.7 36.3 41.5 0.85 6.26 81.6  O 349.1 74.5 55 67 24 104 68.8 87.8 121.0 0.64 3.11 65.6  I 13 5 21 18.6 12.5 29.7 0.62 5.92 80.4  O 378.6 91.3 54 149 15 166 2.5 162.5 168.9 0.90 2.60 61.8  I 29 3 32 0.5 30.9 32.8 0.90 5.60 79.0  O 349.0 13.0 50 379 29 410 3.3 406.8 414.0 0.92 2.36 59.5  I 10 18 1 19 0.4 17.9 20.6 0.88 5.84 80.5  O 426.7 80.6 56 256 59 333 47.7 318.9 346.5 0.77 2.03 56.5  I 18 1 19 0.1 18.5 19.6 0.4 5.54 78.4  O 439.0 209.9 76 118 14 134 3.1 130.4 137.4 0.86 2.21 58.2  I 14 1 15 0.1 14.4 15.7 0.93 5.74 79.7  O 2346.9 489.1 357 1051 155 1233 49.7 1218.7 1246.9 0.85 2.42 59.9  I WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL WETTED RIFFLE POOL WETTED WETTED WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL WETTED WETTED WETTED RIFFLE POOL WETTED WE	AREA (SQ.M) LEN POP. VAR. CONF. LIMITS WEIGHT LENGTH AREA/I AGE WETTED RIFFLE (M) C1 C2 N N LOWER UPPER P (GM) (MM) WETTED.  29/77  0 404.5 19.8 66 82 14 99 5.9 94.0 103.7 0.83 3.21 66.2 4.09  1 33 5 39 1.7 36.3 41.5 0.65 6.26 81.6 10.40  0 349.1 74.5 55 67 24 104 68.8 87.8 121.0 0.64 3.11 65.6 3.34  I 13 5 21 18.6 12.5 29.7 0.62 5.92 80.4 16.53  0 378.6 91.3 54 149 15 166 2.5 162.5 168.9 0.90 2.60 61.8 2.29  I 29 3 32 0.5 30.9 33.8 0.90 5.60 79.0 11.70  0 349.0 13.0 50 379 29 410 3.3 406.8 414.0 0.92 2.36 59.5 0.85  I 17 2 19 0.4 17.9 20.6 0.88 5.84 80.5 18.11  0 426.7 80.6 56 256 59 333 47.7 318.9 346.5 0.77 2.03 56.5 1.12  I 18 1 19 0.1 18.5 19.6 0.94 5.54 78.4 22.39  I 439.0 209.9 76 118 14 134 3.1 130.4 137.4 0.88 2.21 58.2 3.28  I 439.0 130.7 1051 155 1233 49.7 1218.7 1246.9 0.85 2.24 59.9 1.90  1 2346.9 489.1 357 1051 155 1233 49.7 1218.7 1246.9 0.85 2.42 59.9 1.90  1 WETTED RIFFLE POOL WETTED WETTED RIFFLE FISH/ FISH/ FISH/ FISH/ FISH/ FOOL WETTED WETTED RIFFLE FISH/	AGE WETTED RIFFLE (M) C1 C2 N N LOWER UPPER P (GM) LENGTH AREA/FISH (SC MM) WETTED RIFFLE (M) C1 C2 N N LOWER UPPER P (GM) LOWER LOWER UPPER P (GM) WETTED RIFFLE (MM) WETTED RIFFLE RIFFLE (MM) WETTED RIFFLE RI

SECTION	AGE	AREA (S	(M. D	SECT LEN (M)		C2 -	POP.		AR.	95 PE CONF. LOWER	LIMITS UPPER	Ρ	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	
JUNE 5-8	/70											-	14	1.4	15		
II	0	405.0	36.7	70	477	47	529		7.7	523.6	534.7	0.90	1.05	46.0	0.77	0.07	0.70
	1 .				5	1	6		0.6	4.7	7.8	0.80	5.69	78.3	64.80	5.87	58.93
III	0	319.3	46.9.	55	335	28	366		3.6	361.8	369.3	0.92	1.15	47.1	0.87	0.13	0.75
	I.				14	3	18		2.0	15.0	20.7	0.79	5.85	78.8	17.92	2.63	15.28
IV	0	399.5	81.9	56	499	88	606		39.7	593.2	618.4	0.82	1.00	45.1	0.66	0.14	0.53
	I				29	12	49		59.4	34.0	64.9	0.59	4.63	72.3	8.08	1.66	6.4
/	0	292.0	41.3	46	372	27	401		2.8	397.7	404.5	0.93	0.75	41.6	0.73	0.10	0.63
	I				34.	. 7	43		4.4	38.6	47.0	0.79	3.61	66.7	6.82	0.96	5.86
/I	0	434.9	89.3	57	710	55	770	•	6.3	764.6	774.7	0.92	0.75	41.5	0.57	0.13	0.44
	I				36	1	37		0.0	36.7	37.4	0.97	3.88	68.5	11.74	2.68	9.00
IIIV	0	432.2	204.0	74		65	389		43.5	375.3	401.7		0.85	43.0	1,11	0.53	0.59
	I				8	3	13		10.1	6.4	19.2	0.63	4.44	72.5	33.77	15.94	17.83
LL	0	2282.9	510.1	250	2699	310	3049		64.7	2022 4	3065.3	0.89	0.91	43.9	0.75	0.17	0.58
	ī	2202.0	310.1	336	126	27	160		18.4		169.0		4.34	70.9	14.24	3.18	11.0
		WE	TTED		RI	FFLE			POOL		VETTED	WET	TTED	RII	FLE	. РС	OL
		FISH/	FISH	/1	FISH/	FIS	H/	FISH/	. F1	ISH/ TO	TAL WT.	GM/	LB/	GM/	LB/	GM/	LB/
SECTION	AGE	SQ. M	ACRE		SQ. M	ACR	E	SQ. N	AC	CRE	(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	ACRE
JUNE 5-8	/78														* .		
11	0	1.31	5287.	5	14.42	5834	9.3	1.44	58	14.3	553.3	1.37	12.19	15.08	134.48	1.50	13.40
	I	0.02	62.	5	0.17	68	9.2	0.02		8.7	35.6	0.09	0.78	0.97	8.65	0.10	0.86
	0	1.14	4633.	3	7.79	3154		1.34		31.0	419.6	1.31	11.72	8.95	79.81	1.54	13.74
III													0.04		40 04	0.38	3.42
	1	0.06	225.	8 .	0.38	153	7.5	0.07	26	4.7.	104.3	0.33	2.91	2.22	19.84	0.30	
	0	0.06	225. 6137.		7.40	2993		1.91		19.9	104.3	1.52	13.59	7.43	66.27		17.08
t V	0	1.52		3		2993			77							1.92	
v	0	1.52	6137.	3	7.40	2993	7.0	1.91	77	19.9	608.5	1.52	13.59	7.43	66.27	1.92	6.4
tv.	0 1 0 1	1.52	6137. 501.	3 1 3	7.40	2993 244 3930	7.0	0.16	77 63 63 647	19.9	608.5	1.52	13.59	7.43	66.27 24.97	1.92 0.72 1.21	6.4
tv.	0	1.52 0.12 1.37	6137. 501. 5559.	3 1 3	7.40 0.60 9.71	2993 244 3930	7.0 4.5 5.2	1.91	77 63 63 64 7 65	19.9 30.4 75.1	608.5 229.3 302.3	1.52 0.57 1.04	13.59 5.12 9.23	7.43 2.80 7.32	66.27 24.97 65.29	1.92 0.72 1.21 0.62	6.44 10.76 5.50
(V)	0 1 0 1	1.52 0.12 1.37 0.15	501. 5559. 593.	3 1 3 4 B	7.40 0.60 9.71 1.04	2993 244 3930 419 3136	7.0 4.5 5.2	1.91	77 63 647 65 928	19.9 30.4 75.1	608.5 229.3 302.3 154.7	1.52 0.57 1.04 0.53	13.59 5.12 9.23 4.73	7.43 2.80 7.32 3.75	66.27 24.97 65.29 33.42	1.92 0.72 1.21 0.62 1.72	6.44 10.76 5.56 15.3
(V)	0 1 0	1.52 0.12 1.37 0.15 1.77	6137. 501. 5559. 593. 7161.	3 1 3 4 8	7.40 0.60 9.71 1.04 7.75	2993 244 3930 419 3136	7.0 4.5 5.2 5.4 6.0	1.91 0.16 1.60 0.17 2.29	77 63 63 647 65 928 44	19.9 30.4 75.1 31.2	608.5 229.3 302.3 154.7 578.3	1.52 0.57 1.04 0.53 1.33	13.59 5.12 9.23 4.73 11.86	7.43 2.80 7.32 3.75 5.82	66.27 24.97 65.29 33.42 51.95	1.92 0.72 1.21 0.62 1.72 0.43	6.44 10.76 5.56 16.31
(V)	0 1 0 1	1.52 0.12 1.37 0.15 1.77 0.09	6137. 501. 5559. 593. 7161.	3 1 3 4 8 5	7.40 0.60 9.71 1.04 7.75 0.37	2993 244 3930 419 3136 150 770	7.0 4.5 5.2 5.4 6.0	1.91 0.16 1.60 0.17 2.29	777 6 63 6 647 7 65 9 928 1 44	19.9 30.4 75.1 31.2 30.8 46.5	608.5 229.3 302.3 154.7 578.3 143.7	1.52 0.57 1.04 0.53 1.33 0.33	13.59 5.12 9.23 4.73 11.86 2.95	7.43 2.80 7.32 3.75 5.82 1.45	66.27 24.97 65.29 33.42 51.95	1.92 0.72 1.21 0.62 1.72 0.43	6.44 10.76 5.56 15.3 3.8 12.8
VIII VIII	0 1 0 1 0 1	1.52 0.12 1.37 0.15 1.77 0.09 0.90	6137. 501. 5559. 593. 7161. 344. 3638.	3 1 3 4 8 5 1	7.40 0.60 9.71 1.04 7.75 0.37 1.90	2993 244 3930 419 3136 150 770	7.0 4.5 5.2 5.4 6.0 9.1 7.8	1.91 0.16 1.60 0.17 2.29 0.11	775 6 63 7 65 9 926 4 4 9 685 3 22	19.9 30.4 75.1 31.2 30.8 46.5 30.4 27.0	608.5 229.3 302.3 154.7 578.3 143.7 329.4	1.52 0.57 1.04 0.53 1.33 0.33 0.76	13.59 5.12 9.23 4.73 11.86 2.95 6.80	7.43 2.80 7.32 3.75 5.82 1.45	66.27 24.97 65.29 33.42 51.95 12.91	1.92 0.72 1.21 0.62 1.72 0.43 1.44 0.25	17.05 6.44 10.76 5.50 16.37 3.82 12.87 2.22

				SECT				,			PERCENT		MEAN	MEAN		FISH (SQ	
SECTION	AGE	WETTED	SQ.M)			C2	POP.		VAR.	LOWE	R UPPER		WEIGHT (GM)	(MM)		RIFFLE	POOL
JULY 25-	27/78			¥									-	- 1,5		4	-
II	0	342.6	12.8	71	447	58	514		14.8	505.	9 521.3	0.87	1.65	53.5	0.67	0.02	0.64
	1				. 8	5	21		256.8	-10.		0.38	7.30	85:7	16.06	0.60	15.46
III.	0	316,9	20.7	55	319	32	355		5.4	349.			1.66	53.5	0.89	0.06	0.84
	1				10	1	11		0.2	10.		0.90	6.93	84.4	28.52	1.86	26.6
IV	0	325.2	47.2	- 58		46	503		7.9	497.		0.90	1.41	50.9	0.65	0.09	0.55
	I				26	4	31		1.4	28.		0.85	5.31	77.1	10.58	1.54	9.0
V	0	270.8	23.2	49	353	32	388		4.6	383.		0.91	1.22	48.4	0.70	0.06	0:64
	I				36	6	43		2.4	40.		0.83	4.16	73.4.	6.27		5.7
VI	0	352.4	41.0		-	62	644		11.7	636.		0.89	1.19	47.8	0.55	0.06	0.4
	I		*		40	7 -	48		3.1	45.		0.82	4.13	73.3	7.27	0.85	6.4
VIII	0	366.1	132.5	74		27	324		4.0		7 327.7		1.47	50.8	1.13	0.41	0.72
	1		*.		. 8	3	13		10.1	• 6.	4 19.2	0.63	5.08	78.3	28.60	10.35	18.2
ALL	0	1974.0	277.4	363	2430	257	2726		46.7	2712	6 2739.9	0.89	1.41	50.6	0.72	0.10	0.6
	I		4		128	26	161				7 168 6		4.90	76.3	12.29	1.73	10.5
SECTION	AGE	FISH/			FISH/ SQM	FFLE FIS ACE		FIS		FISH/	WETTED TOTAL WT (GM).	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	FFLE LB/ ACRE		LB/ ACRI
SECTION		FISH/	FISH		FISH/	FIS	SH/		H/		TOTAL WT	GM/	LB/	. GM/	LB/	GM/	LB/
JULY 25-	27/78	FISH/	FISH ACRI	Ē.	FISH/ SQM	F1S ACE	SH/ RE	SQ.	M I	ACRE	TOTAL WT	GM/ SQ. M	LB/ ACRE	SQ. M	ACRE	GM/ SQ. M	LB/ ACRI
JULY 25-		FISH/ SQ. M	FISH ACRI	.5	FISH/ SQ M	F13	SH/ RE.	1.	H/ M	303.0	TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	ACRE 590.12	GM/ SQ. M	LB/ ACRI
JULY 25-	27/78 O I	FISH/ SQ. M	FISH ACRI 0 6067 252	.5	FISH/ SQM 40.13 1.67	16240 674	01.0 45.0	1.	56 6 06	303.0 261.8	TOTAL WT (GM) 846.8 155.6	GM/ SQ. M 2.47 0.45	22.05 4.05	GM/ SQ. M 66.16 12.16	590.12	GM/ SQ. M	LB/ ACRI
JULY 25-	27/78 0 I	FISH/ SQ. M 1.50 0.06 1.12	FISH ACRI 0 6067 252 4528	.5	FISH/ SQM 40.13 1.67 17:13	16240 674 693	01.0 45.0	1.	56 6 06 20 4	303.0 261.8 844.5	TOTAL WT (GM) 846.8 155.6 587.6	GM/ SQ. M 2.47 0.45 1.85	22.05 4.05 16.54	GM/ SQ. M 66.16 12.16 28.39	590.12 108.47 253.22	GM/ SQ. M	22.90 4.2
JULY 25- II	27/78 0 I 0 I	1.50 0.06 1.12 0.04	FISH ACRI 9 6067 252 4528 141	.5	FISH/ SQ M 40.13 1.67 17:13 0.54	16240 674 6932	01.0 45.0 20.6 72.3	1. 0. 1. 0.	56 6: 06 20 4: 04	303.0 261.8 844.5	846.8 155.6 587.6 77.1	GM/ SQ. M 2.47 0.45 1.85 Q.24	22.05 4.05 16.54 2.17	GM/ SQ. M 66.16 12.16 28.39 3.72	590.12 108.47 253.22 33.20	GM/ SQ. M 2.57 0.47 1.98 0.26	22.90 4.2 17.70 2.30
JULY 25- II	27/78 0 1 0 1	1.50 0.06 1.12 0.04 1.55	FISH ACRI 0 GO67 252 4528 141 6262	.5 .0 .0 .9	FISH/ SQ. M 40.13 1.67 17:13 0.54 10.66	16240 674 693: 217	01.0 45.0 20.6 72.3	1. 0. 1. 0.	56 6: 06 : 20 4: 04 81 7:	303.0 261.8 844.5 151.8 325.5	846.8 155.6 587.6 77.1 709.1	GM/ SQ. M 2.47 0.45 1.85 0.24 2.18	22.05 4.05 16.54 2.17	GM/ SQ. M 66.16 12.16 28.39 3.72 15.02	590.12 108.47 253.22 33.20	GM/ SQ. M 2.57 0.47 1.98 0.26 2.55	22.90 4.2 17.70 2.30
JULY 25- II III	27/78 0 I 0 I 0 I	FISH/ SQ. M 1.50 0.06 1.12 0.04 1.55 0.09	FISI ACRI 0 6067 5 252 2 4528 1 41 6 6262 3 382	.5 .0 .0 .9 .3	FISH/ SQ. M 40.13 1.67 17:13 0.54 10.66 0.65	16240 674 6932 213 4314 263	01.0 45.0 20.6 72.3 46.2	1. 0. 1. 0.	56 6 06 20 4 04 81 7	303.0 261.8 844.5 151.8 325.5 447.3	846.8 155.6 587.6 77.1 709.1 163.1	GM/ SQ. M 2.47 0.45 1.85 0.24 2.18 0.50	22.05 4.05 16.54 2.17 19.45 4.47	GM/ SO. M 66.16 12.16 28.39 3.72 15.02 3.45	590.12 108.47 253.22 33.20 134.01 30.81	GM/ SQ. M	22.90 4.2 17.70 2.33 22.71
JULY 25- II III	27/78 0 1 0 1 0 1	1.50 0.06 1.12 0.04 1.55 0.09	FISI ACRI 0 6067 252 4528 141 6 6262 382 5801	.5 .0 .0 .9 .3 .4	FISH/ SQ. M 40.13 1.67 17:13 0.54 10.66 0.65 16.73	16240 674 6932 213 4314 263 677	01.0 45.0 20.6 72.3 46.2 34.6 15.7	1. 0. 1. 0. 1.	56 6: 06 20 4: 04 81 7: 11 57 6:	303.0 261.8 844.5 151.8 325.5 447.3	846.8 155.6 587.6 77.1 709.1 163.1 474.7	GM/ SQ. M 2.47 0.45 1.85 0.24 2.18 0.50 1.75	22.05 4.05 16.54 2.17 19.45 4.47 15.64	GM/ SQ. M 66.16 12.16 28.39 3.72 15.02	590.12 108.47 253.22 33.20 134.01 30.81 182.52	GM/ SQ. M 2.57 0.47 1.98 0.26 2.55 0.59	22.90 4.2 17.70 2.3 22.71 5.23
JULY 25- II III IV	27/78 0 I 0 I 0 I	1.50 0.06 1.12 0.04 1.55 0.09 1.43 0.16	FISI ACRI 0 6067 252 4528 141 6262 382 5801 645	.5 .0 .0 .9 .3 .4 .3	FISH/ SQ. M 40.13 1.67 17:13 0.54 10.66 0.65 16.73 1.86	16240 674 6932 211 4314 263 677 753	01.0 45.0 20.6 72.3 46.2 34.6 15.7	1. 0. 1. 0. 1. 0.	56 6 06 2 20 4 04 81 7 11 57 6	303.0 261.8 844.5 151.8 325.5 447.3 344.9 706.1	846.8 155.6 587.6 77.1 709.1 163.1 474.7 179.9	GM/ SQ. M 2.47 0.45 1.85 0.24 2.18 0.50	22.05 4.05 16.54 2.17 19.45 4.47 15.64 5.93	GM/ SQ. M 66.16 12.16 28.39 3.72 15.02 3.45 20.46	590.12 108.47 253.22 33.20 134.01 182.52 69.17	GM/ SQ. M 2.57 0.47 1.98 0.26 2.55 0.59 1.92 0.73	22.90 4.2 17.70 2.3 22.71 5.23
JULY 25- II III IV	27/78 0 1 0 1 0 1 0 1	1.50 0.06 1.12 0.04 1.55 0.09 1.43 0.16	FISI ACRI  0 6067 252 4528 4 141 6 6262 382 5 5801 6 645 7390	.50 .0 .9 .3 .4 .3	FISH/ SQM 40.13 1.67 17:13 0.54 0.65 16.73 1.86 15.70	16240 674 693: 211 431 26: 677 75: 635	01.0 45.0 20.6 72.3 46.2 34.6 15.7 35.8	1. 0. 1. 0. 1. 0. 2.	56 6: 06 20 4: 04 81 7: 11 57 6: 17 07 8:	303.0 261.8 844.5 151.8 325.5 447.3 344.9 706.1	B46.8 155.6 587.6 77.1 709.1 163.1 474.7 179.9 764.2	GM/ SQ. M 2.47 0.45 1.85 0.24 2.18 0.50 1.75 0.66 2.17	22.05 4.05 16.54 2.17 19.45 4.47 15.64 5.93	GM/ SQ. M 66.16 12.16 28.39 3.72 15.02 3.45 20.46 7.75	590.12 108.47 253.22 33.20 134.01 30.81 182.52 69.17	GM/ SQ. M 2.57 0.47 1.98 0.26 2.55 0.59 1.92 7.0.73 2.45	22.90 4.2 17.70 2.3 22.7 5.2 17.10 6.40
JULY 25- II III IV V	27/78 0 1 0 1 0 1	1.50 0.06 1.12 0.04 1.55 0.09 1.43 0.16	FISI ACRI  0 6067 252 2 4528 4 141 6 6262 0 382 0 5801 6 645 7 7390 0 556	.5 .0 .0 .9 .3 .4 .3 .6	FISH/ SQ. M 40.13 1.67 17:13 0.54 10.66 0.65 16.73 1.86	1624( 677 693: 211 4314 26: 677 75: 635	01.0 45.0 20.6 72.3 46.2 34.6 735.8	1. 0. 1. 0. 1. 0. 2. 0.	56 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	303.0 261.8 844.5 151.8 325.5 447.3 344.9 706.1 363.1	846.8 155.6 587.6 77.1 709.1 163.1 474.7 179.9 764.2 200.1	GM/ SQ. M 2.47 0.45 1.85 0.24 2.18 0.50 1.75 0.66	22.05 4.05 16.54 2.17 19.45 4.47 15.64 5.93 19.34 5.07	GM/ SQ. M 66.16 12.16 28.39 3.72 15.02 3.45 20.46 7.75 18.64	590.12 108.47 253.22 134.01 30.81 182.52 69.17 166.26 43.54	GM/ SQ. M	22.99 4.2 17.70 2.37 5.2:71 5.4 21.8
JULY 25- II III IV V	27/78 0 1 0 1 0 1 0 1	FISH/ SQ. M 1.50 0.06 1.12 0.04 1.55 0.09 1.43 0.16 1.83	FISI ACRI  0 6067 252 2 4528 4 141 6 6262 382 5801 6 645 7390 6 556	.5.0 .0 .9 .3 .4 .3 .6 .1	FISH/ SQM 40.13 1.67 17:13 0.54 10.66 0.65 16.73 1.86 15.70 1.18	16240 677 693: 211 4314 26: 677 75: 635 471 98:	01.0 45.0 20.6 72.3 46.2 34.6 15.7 35.8	1. 0. 1. 0. 1. 0. 2.	56 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	303.0 261.8 844.5 151.8 325.5 447.3 344.9 706.1	B46.8 155.6 587.6 77.1 709.1 163.1 474.7 179.9 764.2	GM/ SQ. M 2.47 0.45 1.85 0.24 2.18 0.50 1.75 0.66 2.17 0.57	22.05 4.05 16.54 2.17 19.45 4.47 15.64 5.93 19.34 5.07	GM/ SQ. M 66.16 12.16 28.39 3.72 15.02 3.45 20.46 7.75 18.64 4.88	590.12 108.47 253.22 33.20 134.01 182.52 69.17 166.26 43.54	GM/ SQ. M 2.57 0.47 1.98 0.26 2.55 0.59 1.92 7.073 2.45 4.064 2.04	22.99 4.2 17.70 2.33 22.71 5.22 17.10 6.44 21.85
SECTION  JULY 25- II  III  IV  V  VI  VIII  ALL	27/78 0 1 0 1 0 1 0 1	FISH/ SQ. M 1.50 0.06 1.12 0.04 1.55 0.09 1.43 0.16 1.83 0.14	FISH ACRI 0 6067 252 4528 141 6452 0 382 0 5801 645 7390 556 3578 141	.5 .0 .0 .9 .3 .4 .3 .6 .1 .8 .6 .5	FISH/ SQ. M 40.13 1.67 17:13 0.54 10.65 16.73 1.86 15.70 1.18 2.44	1624( 67/ 693: 211 4314 26: 677 75: 635 47/ 98/	5H/ RE 01.0 45.0 20.6 72.3 46.2 34.6 15.7 35.8 37.8	1. 0. 1. 0. 1. 0. 2. 0.	H/ M 56 6:06 06 4:004 81 7:11 07 6:17 07 8:39 5:05	303.0 261.8 844.5 151.8 325.5 447.3 344.9 706.1 3630.1 608.5	846.8 155.6 587.6 77.1 709.1 163.1 474.7 179.9 764.2 200.1 475.8	GM/ SQ. M 2.47 0.45 1.85 0.24 2.18 0.50 1.75 0.66 2.17 0.57	22.05 4.05 16.54 2.17 19.45 4.47 15.64 5.93 19.34 5.07 11.59 1.59	GM/ SQ. M 66.16 12.16 28.39 3.72 15.02 3.45 20.46 7.75 18.64 4.88 3.59	590.12 108.47 253.22 33.20 134.01 30.81 182.52 69.17 166.26 43.54 32.03	GM/ SQ. M 2.57 0.47 1.98 0.26 2.55 0.59 1.92 7.0.73 2.45 0.64 2.04 0.28	22.99 4.2 17.70 2.33 22.71 5.2: 17.11 6.41 21.83 5.7: 18.1

											* 5						
		AREA (		SECT.			POP.	1	AR.	CONF			MEAN WEIGHT	MEAN LENGTH		FISH (SQ	
SECTION	AGE	WETTED	RIFFLE	(M)	C1	C2	N		Ņ.	LOWER	UPPER	Р	(GM)	(MM)	WETTED	RIFFLE	POOL
SEP. 20-	-OCT.	5/78								-				- 5			
II	0	507.7	57.2	71	201	25	230		5.9	224.7		0.88	6.80	61.0	2.21	4.67	1.96
III-	0	401.3	85.0	. 55	133	8	142		0.7.		143.1	0.94	8.33	90.5	2.84	5.29	19.68
IV	0	423.5	124.8	58		33	314		7.3	309.	319.9	0.88	2.18 6.75	57.8 84.7	1.35	0.40	0.95
v	0	330.4	97.7	49		34	218		18.5	209.5	226.7	0.81	1.68	54.4 77.3	1.51	3.04	7.24
VI	0	435.1	127.8	56		22	260		3.3	256.6	263.9	0.91	5.25	53.5	1.67	3.04	7.30
VIII	O	453.6	218.9	72		8	124		0.0	121.6	125.4		1.93 5.73	56.4 79.7	3.67 64.80	1.77	1.90
ALL	0	2551.6	711.4	361	1138	130	1285 128				1295.1		2.06	57.1- 80.9	1.99	0.55 5.54	1.43
			ETTED .		RI	FFLE			POOL		WETTED	WE	TTED	RI	FLE	PO	OOL
SECTION	AGE	FISH/ SQ. M			FISH/	FIS			A A		(GM)	GM/ SQ. M	ACRE	GM/ SQ. M	ACRE	SQ. M	ACRE
SEP. 20-	OCT.	5/78							•			:	11			74.	17
II	0.	0.45	1829.		4.01	1624		0.5		62.1.	577.6.	1.14	10.15	10.10	90.08		11,44
	1	0.02	97.		0.21		6.7	0.0		10.0	83.3	. 0.16	1.46	1.46	13.00		1.65
III	0	0.35	1427.		1.66	673		0.4		10.6	356.7	0.89	7.93	4.20	37.43 14.05		3.78
IV	0	0.04	162.		0.19	1019	5.2	0.0		05.6	133.9	1.62	14.46	5,50	49.06		20.50
**	ī	0.05	203.		0.17		1.8	0.0		89.0	144.0	0.34	3.03	1.15	10.29		4.30
v .	0	0.66	2672.0	-	2.23		6.0	0.94		93.8	366.2	1.11	9.89	3.75	33.43		14.04
	1	0.10	393.	7	0.33	133	1.4	0.14			169.2	0.51	4.57	1.73	15.44	0.73	6.48
VI.	0 .	0.60	2420.	8	2.04		1.6	0.85	34	27.5	419.5	0.96	8.60	3.28	29.28		12.18
	1	0.10	1 1	-	0.33	133		0.14		54.5.	221.2	0.51	4.54	1.73	15:44		6.42
VIII	0	0.27	1102.		0.56	228		0.53		31.2	237.9	0.52	4.68	1.09	9.70		9.04
	1	0.02	62.	5	0.03	12	9.4	0.03	3 1	20.7	40.1	0.09	0.79	0.18	1.63	0.17	1.52
ALL	0	0.50	2037.	7	1.81	730	8.8	0.70	28	25.5	2640.4	1.03	9.23	3.71	33.11	1.43	12.80
	1	0.05	203.		0.18	73		0.0		82.4	773.9	0.30		1.09	9.70		3.75

SECTION	AGE	AREA (S		SECT			POP.		VAR.				MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/	FISH (SQ	.M)
35011014	MOL	WEITED	MATTER .	(-1)		02			**						1 1 1 1 1 1		
JUNE 4-1	3/79															2.0	
II	0	427.8	47.8	71	550	100	672		47.9	658.4	4 686.1	0.82	0.84	43.3	0.64	0.07	0.5
	I				19	2	21	4.	0.4	20.0		0.89	5.07	75.6	20.15	2.25	17.8
III	0	361.8	54.3	55	457	16	474		0.7	471.5		0.96	1.20	48.6	0.76		0.6
	I		. :		32	4.	37		1.0	34.0		0.88	5.45	77.0	9.89	1.,48	8.4
IV	0	375.1	66.4	59	705	74	788		13.4	780.4		0.90	0.95	45.0	0.48	0.08	0.3
	I				56	5	61		0.7	59.8		0.91	4.66	73.6.	6.10	1.08	5.0
y .	0	233.9	99.4	61	62	-12	77		6.6	71.1		0.81	1.22	48.4	3.04	1.29	1.7
	I .				35	11	51		20.6	42.0		0.69	4.11	70.2	4.58	1.95	2.6
VI.	0	342.4	38.0	79		54	247		110.2	225.8		0.68	1.06	46.4	1.39	1.14	9.1
VIII	0	470.2	407 0	74	20	8.	33		34.6		6. 45.1	0.60	0.93	68.4	0.39	0.16	0.2
AIII	T	470.2	.197.3	14	905	233	1219		0.8	12.0	3-1250.3 6 16.2	0.74	5.14	76.3	32.65	13.70	18.9
	r	•			12	. 2	14		0.0	12.	10.2	V.03	3.14		34.00	13.70	. 10.0
ALL	0	2211.2	503.2	399	2846	489	3436		209.3	3407	5 3465.4	0.83	0.97	45.2	0.64	0.15	0.5
	7		.000.2		174	32	213		15.7		3 221.1			73.1	10.37	2.36	8.0
		FISH/	TTED FISH,		FISH/	FFLE FIS		EISH			WETTED TOTAL WT	WE'	LB/	GM/		PO GM/	LB/
SECTION	AGE	SQ. M	ACRE		SQ. M	ACR	Ε	SQ.	М ./	CRE	(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	ACF
JUNE 4-1	3/79															- 15	1
II	0	1.57	6359.3	2 :	14.06	5691	3.9	1.7	7 7	59.2	564.5	1.32	11.77	11.81	105.34	1.49	13.2
	1	0.05	200.5	9	0.44	179	7.9	0.0	6 : 3	26.2	107.7	0.25	2.25	2.25	20.10	0.28	2.5
III	0	1.31	5297.3	3	8:72	3529	6.1	1.5	4 62	32.8	567.9	1.57	14.00	10.46	93.29		16.4
	1	0.10	409.	1	0.67	272		0.1	2 4	81.3	199.4	0.55	4.92	3.67			5.7
IV	0	2.10	. 8498.4		11.86	4800		2.5		26.3	748.4	2.00	17.80	11,27	100.54		21.6
. v	I	0.16	663.4		0.93	374		0.2		306.1	286.6	0.76	6.81	4.32	38.50		8.3
		0 00	1330.3	2	0.77	313		0.5		113.3	93.5	0.40	3.57	0.94	8.39		6.2
	0	0.33				207	CD 4	0.3	B · 15	35.8	210.0	0.90	8.01	2.11	18.84		13.5
,	1	0.22	883.	1	0.51		-		-				6 60			0.86	7.0
,	0	0.22	883. 2917.	1	6.49	2628	4.8	0.8	1 33	81.3	260.9	0.76	6.80	6.86	61.23		1 400 14
/ /I	0	0.22 0.72 0.10	883. 2917. 394.0	1	6.49	2628 355	4.8	0.8	1 32	143.2	128.1.	0.37	3.34	3.37	30.08	0.42	
, ,,	0 1	0.22 0.72 0.10 2.59	883. 2917. 394.0 10490.	1	6.49 0.88 6.18	2628 355 2499	4.8 0.0 9.6	0.B 0.1 4.4	1 32 1 4 7 180	143.2	128.1	0.37	3.34	3.37 5.74	30.08 51.23	0.42	37.0
/ /I	0	0.22 0.72 0.10	883. 2917. 394.0	1	6.49	2628 355 2499	4.8	0.8	1 32 1 4 7 180	143.2	128.1.	0.37	3.34	3.37	30.08	0.42	37.
VIII	0 1	0.22 0.72 0.10 2.59	883. 2917. 394.0 10490.	1 0 1	6.49 0.88 6.18	2628 355 2499	4.8 0.0 9.6 5.4	0.B 0.1 4.4	1 32 1 4 7 180 5 2	143.2	128.1	0.37	3.34	3.37 5.74	30.08 51.23	0.42 4.15 0.27	3.7 37.0 2.4

SECTION	AGE	AREA (	(SQ.M) RIFFLE	SECT LEN (M)	C1	C2	POP.	VAI	C	95 PE ONF. OWER	RCENT LIMITS UPPER	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	.M) POOI
JULY 24-	26/79			,				•			7 - 4				: "		
II	0	480.2	35.0	67	368	45	419			12.8	425.7	0.88	1.46	51.1	1.15	0.08	1.0
	I				15	5	23			15.8	29.2	0.67	4.84	77.0	21.34	1.56	19.7
III	o ·	384.1	70.4	55	373	21	395			12.7	397.8	0.94	1.99	56.7 80.1	10.50	0.18	8.5
IV	0	369.4	73.7	53	556	82	652			11.9	662.4	0.85	1.51	51.6	0.57	0.11	0.4
	ī	305.4	13.7	33	45	6	52			9.4	54.5	0.87	5.13	78.7	7.11	1.42	5.6
V	Ö	208.0	88.4	57	80	9	90			7.4	92.8	0.89	1.94	55.5	2.31	0.98	1.3
2.0	I	-44.4			21	5	28			3.4	31.7		4.54	74.0	7:55	3.21	4.3
VI	0	328:1	1.6	76	168	14	183			10.6		0.92	1.77	54.0	1.79	0.01	1.7
	I	v* *			- 1:1	1	12	(	0.1.	11.3	. 12.9	0.91	4.71	75.3	27.12	0.13	26.9
IIIV	0	499.3	151.0	76	635	132	802			3.3			1.34	49.1	0.62	0.19	0.4
	I		•		. 5	. 3	13	113	2.5	8.7	33.7	0.40	5.47	80.9	39.94	12.08	27.8
ALL	0	2269.1	420.1	384	2180	303	2532	8	.3 25	13.2	2550.6	0.86	1.56	51.9	0.90	0.17	. 0.7
	I		.*	. :	. 129	24	158	13	1.1. 1	51.5	165.4	0.81	5.04	77.9	14.32	2.65	11.6
	•	2.	ETTED			FFLE		. De	ODL .		ETTED	. we	TTED .		FFLE	PO	01
				./		FICE											LB/
		FISH	FISH					FISH	FISH	1	TAL WT	GM/	LR/	GM/	LR/	GM/	
SECTION	AGE	FISH/			FISH/ SO. M	ACRE		FISH/	ACRE	10	(GM)	SQ. M	LB/	SQ. M	ACRE	SQ. M	
SECTION	-									10							ACR
JULY 24-	26/79	so. i	A ACRI	E !	SO. M	ACRE	e s	SQ. M.	ACRE		(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	ACR
JULY 24-	-	SQ. N	3533	. 5	11.98	48479	.5	SQ. M.	3811.3	,	(GM)	5Q. M	11.38	SQ. M	156.16	SQ. M	12.2
JULY 24-	26/79	0.87 0.05	3533 189	. 5 . 6	11.98 0.64	48479 2601	.5	0.94 0.05	3811.3 204.1		(GN) 612.8 109.0	1.28 0.23	11.38 2.02	SQ. M	156.16 27.77	1.38 0.24	12.2 2.1
JULY 24- II	26/79 0 I	SQ. N	7 3533 5 189 8 4164	.5	11.98	48479	.5	SQ. M.	3811.3	3	(GM) 612.8 109.0 787.6	5Q. M	11.38	SQ. M	156.16	1.38 0.24 2.51	12.2 2.1 22.4
JULY 24- II III	26/79 0 I	0.87 0.05 1.03	7 3533 5 189 8 4164 9 385	. 5 . 6 . 5	11.98 0.64 5.61	48479 2601 22721	.5	0.94 0.05 1.26	3811.3 204.1 5099.		(GM) 612.8 109.0 787.6	1.28 0.23 2.05	11.38 2.02 18.29	17.51 3.11 11.19	156.16 27.77 99.80	1.38 0.24 2.51 0.63	12.2 2.1 22.4 5.6
JULY 24- II III	26/79 0 I 0	0.87 0.05 1.03 0.10 1.77 0.14	7 3533 5 189 6 4164 7 7145 7 7145	. 5 . 6 . 5 . 3	11.98 0.64 5.61 0.52 8.85 0.70	48479 2601 22721 2102	.5	O.94 O.05 1.26 O.12	3811.3 204.1 5099.		(GM) 612.8 109.0 787.6 198.0	1.28 0.23 2.05 0.52	11.38 2.02 18.29 4.60	17.51 3.11 11.19 2.81	156.16 27.77 99.80 25.09 118.97 32.21	1.38 0.24 2.51 0.63 3.32 0.90	12.2 2.1 22.4 5.6 29.6
UULY 24- II III	26/79 0 I 0	0.87 0.05 1.03 0.10 1.77 0.14	7 3533 5 189 8 4164 0 385 7 7145 5 568 1753	. 5 . 6 . 5 . 1 . 8	11.98 0.64 5.61 0.52 8.85 0.70	48478 2601 22721 2102 35812 2851 4126	.5 .6 .4 .3 .7 .2	O.94 O.05 1.26 O.12 2.21 O.18 O.75	3811.3 204.1 5099. 471.8 8925. 710.6		(GM) 612.8 109.0 787.6 198.0 983.0 266.2 174.5	1.28 0.23 2.05 0.52 2.66 0.72 0.84	11.38 2.02 18.29 4.60 23.74 6.43 7.48	17.51 3.11 11.19 2.81 13.34 3.61 1.97	156.16 27.77 99.80 25.09 118.97 32.21 17.61	1.38 0.24 2.51 0.63 3.32 0.90	12.2 2.1 22.4 5.6 29.6 8.0
JULY 24- 11 111 1V	26/79 0 1 0 1 0 1	0.87 0.05 1.03 0.10 1.77 0.14 0.43	7 3533 5 189 8 4164 0 385 7 7145 5 568 1753 5 536	.5 .6 .5 .3	11.98 0.64 5.61 0.52 8.85 0.70 1.02 0.31	48479 2601 22721 2102 35812 2851 4126	.5 .6 .4 .3 .7 .2	O.94 O.05 1.26 O.12 2.21 O.18 O.75 O.23	3811.3 204.1 5099. 471.8 8925. 710.6 3050.2 832.3		(GM) 612.8 109.0 787.6 198.0 983.0 266.2 174.5 125.1	1.28 0.23 2.05 0.52 2.66 0.72 0.84 0.60	11.38 2.02 18.29 4.60 23.74 6.43 7.48 5.36	17.51 3.11 11.19 2.81 13.34 3.61 1.97	156.16 27.77 99.80 25.09 118.97 32.17.61 17.61	1,38 0,24 2,51 0,63 3,32 0,90 1,46 1,05	12.2 2.1 22.4 5.6 29.6 8.0 13.0
JULY 24- II III	26/79 0 I 0 I 0	0.87 0.05 1.03 0.10 1.77 0.14 0.43 0.13	7 3533 5 189 8 4164 9 385 7 7145 5 568 8 1753 6 2260	. 5 . 6 . 5 . 3 . 1 . 8	11.98 0.64 5.61 0.52 8.85 0.70 1.02 0.31	48478 2601 22721 2102 35812 2851 4126 1261 463565	.5 .6 .4 .3 .7 .2 .7	O.94 O.05 1.26 O.12 2.21 O.18 O.75 O.23 O.56	3811.3 204.1 5099. 471.8 8925.8 710.6 3050.3 832.3 2271.7		(GM) 612.8 109.0 787.6 198.0 983.0 266.2 174.5 125.1 324.1	1.28 0.23 2.05 0.52 2.66 0.72 0.84 0.60 0.99	11.38 2.02 18.29 4.60 23.74 6.43 7.48 5.36 8.81	SQ. M 17.51 3.11 11.19 2.81 13.34 3.61 1.97 1.41 202.54	156.16 27.77 99.80 25.09 118.97 32.21 17.61 12.62 1806.66	1.38 0.24 2.51 0.63 3.32 0.90 1.46 1.05	12.2 2.1 22.4 5.6 29.6 8.0 13.0 9.3 8.8
JULY 24- 11 111 1V V	26/79 0 I 0 I 0 I 0 I	0.87 0.05 1.03 0.10 1.77 0.14 0.43 0.13	7 3533 5 189 8 4164 9 385 7 7145 5 568 1753 5 536 6 2260 149	. 5 . 6 . 5 . 3 . 1 . 8 . 8	11.98 0.64 5.61 0.52 8.85 0.70 1.02 0.31 14.55 7.56	48479 2601 22721 2102 35812 2851 4126 1261 463565 30605	.5 .6 .4 .3 .7 .2 .7 .8	O.94 O.05 1.26 O.12 2.21 O.18 O.75 O.23 O.56 O.04	3811.3 204.8 5099. 471.8 8925.8 710.6 3050.2 932.7 150.6		(GM) 612.8 109.0 787.6 198.0 983.0 266.2 174.5 125.1 324.1 57.0	1.28 0.23 2.05 0.52 2.66 0.72 0.84 0.60 0.99 0.17	11.38 2.02 18.29 4.60 23.74 6.43 7.48 5.36 8.81 1.55	17.51 3.11 11.19 2.81 13.34 3.61 1.97 1.41 202.54	156.16 27.77 99.80 25.09 118.97 32.21 17.61 12.62 1806.66 318.01	1.38 0.24 2.51 0.63 3.32 0.90 1.46 1.05 0.99 0.17	12.2 2.1 22.4 5.6 29.6 8.0 13.0 9.3 8.8 1.5
JULY 24- 11 111 1V	26/79 0 1 0 1 0 1 0 1 0 1	0.87 0.05 1.03 0.10 1.77 0.14 0.43 0.13	7 3533 189 3 4164 385 7 7145 568 3 1753 6 2260 149 6497	.5 .6 .5 .3 .1 .8 .8 .3	11.98 0.64 5.61 0.52 8.85 0.70 1.02 0.31 14.56 5.31	48478 2601 22721 2102 35812 2851 41261 463565 30609 21485	.5 .6 .4 .3 .7 .2 .7 .8 .0	0.94 0.05 1.26 0.12 2.21 0.18 0.75 0.23 0.56 0.04 2.30	3811.3 204.8 5099. 471.8 8925. 710.6 3050.2 932.1 150.0 9314.8		(GM) 612.8 109.0 787.6 198.0 983.0 266.2 174.5 125.1 324.1 57.0	1.28 0.23 2.05 0.52 2.66 0.72 0.84 0.69 0.17 2.14	11.38 2.02 18.29 4.60 23.74 6.43 7.48 5.36 8.81 1.55 19.13	17.51 3.11 11.19 2.81 13.34 3.61 1.97 1.41 202.54 35.65 7.09	156.16 27.77 99.80 25.09 118.97 32.21 17.61 12.62 1806.66 318.01 63.24	\$Q. M 1.38 0.24 2.51 0.63 3.32 0.90 1.46 1.05 0.99 0.17 3.07	12.2 2.1 22.4 5.6 29.6 8.0 13.3 8.8 1.8
JULY 24- 11 111 1V	26/79 0 I 0 I 0 I 0 I	0.87 0.05 1.03 0.10 1.77 0.14 0.43 0.13	7 3533 189 3 4164 385 7 7145 568 3 1753 5 536 6 2260 6 2497	.5 .6 .5 .3 .1 .8 .8 .3	11.98 0.64 5.61 0.52 8.85 0.70 1.02 0.31 14.55 7.56	48479 2601 22721 2102 35812 2851 4126 1261 463565 30605	.5 .6 .4 .3 .7 .2 .7 .8 .0	O.94 O.05 1.26 O.12 2.21 O.18 O.75 O.23 O.56 O.04	3811.3 204.8 5099. 471.8 8925.8 710.6 3050.2 932.7 150.6		(GM) 612.8 109.0 787.6 198.0 983.0 266.2 174.5 125.1 324.1 57.0	1.28 0.23 2.05 0.52 2.66 0.72 0.84 0.60 0.99 0.17	11.38 2.02 18.29 4.60 23.74 6.43 7.48 5.36 8.81 1.55	17.51 3.11 11.19 2.81 13.34 3.61 1.97 1.41 202.54	156.16 27.77 99.80 25.09 118.97 32.21 17.61 12.62 1806.66 318.01	\$Q. M 1.38 0.24 2.51 0.63 3.32 0.90 1.46 1.05 0.99 0.17 3.07	ACR
JULY 24- 11 111 1V V	26/79 0 1 0 1 0 1 0 1 0 1	0.87 0.05 1.03 0.10 1.77 0.14 0.43 0.13	7 3533 5 189 6 4164 7 7145 5 568 1 753 6 2260 4 149 6 497 101	.5 .6 .5 .3 .1 .8 .8 .3 .6 .1	11.98 0.64 5.61 0.52 8.85 0.70 1.02 0.31 14.56 5.31	48478 2601 22721 2102 35812 2851 41261 463565 30609 21485	.5 .6 .4 .3 .7 .2 .7 .8 .0 .4 .0	0.94 0.05 1.26 0.12 2.21 0.18 0.75 0.23 0.56 0.04 2.30	3811.3 204.8 5099. 471.8 8925. 710.6 3050.2 932.1 150.0 9314.8		(GM) 612.8 109.0 787.6 198.0 983.0 266.2 174.5 125.1 324.1 57.0	1.28 0.23 2.05 0.52 2.66 0.72 0.84 0.69 0.17 2.14	11.38 2.02 18.29 4.60 23.74 6.43 7.48 5.36 8.81 1.55 19.13	17.51 3.11 11.19 2.81 13.34 3.61 1.97 1.41 202.54 35.65 7.09	156.16 27.77 99.80 25.09 118.97 32.21 17.61 12.62 1806.66 318.01 63.24	1.38 0.24 2.51 0.63 3.32 0.90 1.46 1.05 0.99 0.17 3.07 0.20	12.2 2.1 22.4 5.6 29.6 8.0 13.0 8.8 1.5 27.4

SECTION	AGE	AREA (S		LEN (M) C1	C2	POP.	VAR				MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SO RIFFLE	.M) POOL
JULY 22-	24/90										7				-
11	0	412.2	27.6	65 384	54.	. 447	15	.9 438	9 454.8	0.86	1.20	47.0	0.92	0.06	0.86
••	Ť.	412.2	. 27.0	36		38	-4-	.1. 37		0.94	4.02	72.1	10.81	0.72	10.09
III "	Ď .	320.2	110.8	55 34	_	413	22			0.83	1.38	49.2	0.77	0.27	0.51
•••	T	020.2		33		39		.7 36		0.85	5.79	78.9	8.23	2.85	5.38
IV	ō	328.8	120.5	54 62		756	51			0.82	1.23	47.4	0.43	0.16	0.28
• •	ī.			60		67		.0 64		0.90	4.35	73.4	4.93	1.81	3.12
V	0	230.0	42.4	55 149		274	517				1.07	46.0	0.84	0.15	0.68
	I			10		17	17			0.60	5.13	76.7	13.80	2.54	11.26
VI	0	386.8	98.9	75 518	52	577			9 582.7		1.06	45.8	0.67	0.17	0.50
	I			18		18		.0 18		1.00		78.0	21.49	5.49	15.98
VIII	0	407.5	133.3	68 534	123	694	. 99		9 713.7	0.77	1.17	47.5	0.59	0.19	0.40
	I			. 29		42			0 50:1		5.04	75.9	9.69	.3.17	6.52
ALL	0	2085.5	533.5	372 2552	465	3121	224	0 3090	7 3150.5	0.82	1.19	47.2	.0.67	0.17	0.50
	I			186		216			7 221.7		4.81	75.2	9.65	2.47	7,18
SECTION	AGE	FISH/	FISH/				FISH/ SQ. M		TOTAL WT		LB/	GM/ SQ: M	LB/ ACRE	GM/ SQ. M	LB/ ACRE
	AGE	SQ. M	ACRE									94			
.IIII V 22-5		SQ. M	ACRE						7						
JULY 22-						10.8	1 16	4701.9	ESE S	1 20		- 1			12.41
JULY 22-		1.08	4387.1	16.15	655	19.8	1.16	4701.9	535.2	1.30	11.58	19.39	172.98	1.39	12.41
11		1.08	4387.1	1 16.15	655	89.2	0.10	401.1	. 153.1	0.37	11.58	19.39	172.98 49.50	1.39	3.55
		1.08 0.09 1.29	4387 . 1 374 . 2 5223 . 5	1 16.15 2 1.38 3 3.73	655 551 150	89.2 95.2	0.10	401.1 7987.3	153.1 572.2	0.37	11.58 3.31 15.94	19.39 5.55 5.16	172.98 49.50 46.07	1.39 0.40 2.73	3.55
11		1.08 0.09 1.29 0.12	4387.1 374.2 5223.5 491.6	1 16.15 2 1.36 3 3.73 6 0.35	655 55 150	89.2 95.2 20.6	0.10 1.97 0.19	401.1 7987.3 751.7	153.1 572.2 225.1	0.37 1.79 0.70	11.58 3.31 15.94 6.27	19.39 5.55 5.16 2.03	172.98 49.50 46.07 18.12	1.39 0.40 2.73 1.07	3.55 24.38 9.59
111		1.08 0.09 1.29 0.12 2.30	4387.1 374.2 5223.5 491.6 9307.1	1 16.15 2 1.36 3 3.73 6 0.35	655 55 150 14 253	89.2 95.2 20.6	0.10 1.97 0.19 3.63	401.1 7987.3 751.7 14691.2	153.1 572.2 225.1 931.1	0.37 1.79 0.70 2.83	11.58 3.31 15.94 6.27 25.26	19.39 5.55 5.16 2.03 7.73	172.98 49.50 46.07 18.12 68.92	1.39 0.40 2.73 1.07 4.47	3.55 24.38 9.59 39.87
111 111 V		1.08 0.09 1.29 0.12	4387.1 374.2 5223.5 491.6	1 16.15 2 1.36 3 3.73 6 0.35 1 6.26	655 55 150 14 253	89.2 95.2 20.6	0.10 1.97 0.19	401.1 7987.3 751.7 14691.2 1295.2	153.1 572.2 225.1 931.1 290.1	0.37 1.79 0.70 2.83 0.88	11.58 3.31 15.94 6.27 25.26 7.87	19.39 5.55 5.16 2.03 7.79 2.41	172.98 49.50 46.07 18.12	1.39 0.40 2.73 1.07 4.47	3.55 24.38 9.59 39.87
III III		1.08 0.09 1.29 0.12 2.30 0.20	4387.1 374.2 5223.5 491.6 9307.1 820.6	1 16.19 2 1.38 3 3.73 6 0.39 1 6.28	655 55 150 14 253 22 261	89.2 95.2 20.6 95.6 39.0	0.10 1.97 0.19 3.63 0.32 1.46	401.1 7987.3 751.7 14691.2 1295.2 5912.7	153.1 572.2 225.1 931.1 290.1 292.7	0.37 1.78 0.70 2.83 0.88 1.27	11.58 3.31 15.94 6.27 25.26 7.87 11.35	19.39 5.55 5.16 2.03 7.73 2.41 6.90	172.98 49.50 46.07 18.12 68.92 21.48 61.57	1.39 0.40 2.73 1.07 4.47 1.39	3.55 24.36 9.59 39.87 12.42 13.92
111 111 V		1.08 0.09 1.29 0.12 2.30 0.20 1.19	4387.1 374.2 5223.5 491.6 9307.1 820.6 4822.7	1 16.19 2 1.38 3 7.73 3 0.39 1 6.28 5 0.55 7 6.46	655 55 150 14 253 22 261	89.2 95.2 20.6 95.6 39.0 51.0	0.10 1.97 0.19 3.63 0.32 1.46 0.09	401.1 7987.3 751.7 14691.2 1295.2 5912.7 359.5	153.1 572.2 225.1 931.1 290.1 292.7 85.6	0.37 1.78 0.70 2.83 0.88 1.27 0.37	11.58 3.31 15.94 6.27 25.26 7.87 11.35 3.32	19.39 5.55 5.16 2.03 7.73 2.41 6.90 2.02	172.98 49.50 46.07 18.12 68.92 21.48 61.57 18.00	1.39 0.40 2.73 1.07 4.47 1.39 1.56	3.55 24.38 9.59 39.87 12.42 13.92 4.07
11 111 1V V		1.08 0.09 1.29 0.12 2.30 0.20 1.19	4387.1 374.2 5223.5 491.6 9307.8 820.6 4822.7 293.3	1 16.18 2 1.38 3 3.73 3 0.38 1 6.28 6 0.58 7 6.46 3 0.38	655 55 150 14 253 22 26 1 15 236	89.2 95.2 20.6 95.6 39.0 61.0 90.8	0.10 1.97 0.19 3.63 0.32 1.46 0.09 2.00	401.1 7987.3 751.7 14691.2 1295.2 5912.7 359.5 8107.9	153.1 572.2 225.1 931.1 290.1 292.7 85.6 612.2	0.37 1.79 0.70 2.83 0.88 1.27 0.37 1.58	11.58 3.31 15.94 6.27 25.26 7.87 11.35 3.32 14.12	19.39 5.55 5.16 2.03 7.73 2.41 6.90 2.02 6.19	172.98 49.50 46.07 18.12 68.92 21.48 61.57 18.00	1.39 0.40 2.73 1.07 4.47 1.39 1.56 0.46 2.13	3.55 24.38 9.59 39.87 12.42 13.92 4.07 18.97
11 111 1V V VI		1.08 0.09 1.29 0.12 2.30 0.20 1.19 0.07	4387.1 374.2 5223.5 491.6 9307.1 820.6 4822.7 293.3 6034.8	1 16.18 2 1.38 5 3.73 1 6.28 5 0.55 7 6.46 3 0.38 3 5.83	655 55 150 14 253 22 261 15 236	89.2 95.2 20.6 95.6 39.0 51.0 90.8 02.3	0.10 1.97 0.19 3.63 0.32 1.46 0.09 2.00 0.06	401.1 7987.3 751.7 14691.2 1295.2 5912.7 359.5 8107.9 253.0	153.1 572.2 225.1 931.1 290.1 292.7 85.6 612.2 95.5	0.37 1.79 0.70 2.83 0.88 1.27 0.37 1.58	11.58 3.31 15.94 6.27 25.26 7.87 11.35 3.32 14.12 2.20	19.39 5.55 5.16 2.03 7.73 2.41 6.90 2.02 6.19 0.97	172.98 49.50 46.07 18.12 68.92 21.48 61.57 18.00 55.22 8.61	1.39 0.40 2.73 1.07 4.47 1.39 1.56 0.46 2.13	3.55 24.38 9.59 39.87 12.42 13.92 4.07 18.97 2.96
11 111 1V V VI		1.08 0.09 1.29 0.12 2.30 0.20 1.19 0.07 1.49	4387.1 374.2 5223.5 491.6 9307.1 820.6 4822.7 293.3 6034.8	1 16.15 2 1.38 5 3.73 6 .28 6 0.55 7 6.46 3 0.38 5 8.83 8 5.83	655 553 150 14 253 22 261 153 236 236 236	89.2 95.2 20.6 95.6 39.0 61.0 90.8	0.10 1.97 0.19 3.63 0.32 1.46 0.09 2.00 0.06 2.53	401.1 7987.3 751.7 14691.2 1295.2 5912.7 359.5 8107.9 253.0	153.1 572.2 225.1 931.1 290.1 292.7 85.6 612.2 95.5 810.1	0.37 1.79 0.70 2.83 0.88 1.27 0.37 1.58 0.25	11.58 3.31 15.94 6.27 25.26 7.87 11.35 3.32 14.12 2.20 17.73	19.39 5.55 5.16 2.03 7.73 2.41 6.90 2.02 6.19 0.97 6.08	172.98 49.50 46.07 18.12 68.92 21.48 61.57 18.00 55.22 8.61 54.21	1.39 0.40 2.73 1.07 4.47 1.39 1.56 0.46 2.13 0.33 2.95	3.55 24.38 9.59 39.87 12.42 13.92 4.07 18.97 2.96 26.35
AIII A IA III		1.08 0.09 1.29 0.12 2.30 0.20 1.19 0.07 1.49 0.05	4387 1 374 2 5223 5 491 6 9307 8 820 6 4822 7 293 3 6034 8 188 3 6890 4	1 16.15 2 1.38 5 3.73 6 .28 6 0.55 7 6.46 3 0.38 5 8.83 8 5.83	655 553 150 14 253 22 261 153 236 236 236	89.2 95.2 20.6 95.6 39.0 51.0 90.8 02.3	0.10 1.97 0.19 3.63 0.32 1.46 0.09 2.00 0.06	401.1 7987.3 751.7 14691.2 1295.2 5912.7 359.5 8107.9 253.0	153.1 572.2 225.1 931.1 290.1 292.7 85.6 612.2 95.5	0.37 1.79 0.70 2.83 0.88 1.27 0.37 1.58	11.58 3.31 15.94 6.27 25.26 7.87 11.35 3.32 14.12 2.20 17.73	19.39 5.55 5.16 2.03 7.73 2.41 6.90 2.02 6.19 0.97	172.98 49.50 46.07 18.12 68.92 21.48 61.57 18.00 55.22 8.61	1.39 0.40 2.73 1.07 4.47 1.39 1.56 0.46 2.13 0.33 2.95	3.55 24.38 9.59 39.87 12.42 13.92 4.07 18.97 2.96
AIII A IA III		1.08 0.09 1.29 0.12 2.30 0.20 1.19 0.07 1.49 0.05	4387 1 374 2 5223 5 491 6 9307 8 820 6 4822 7 293 3 6034 8 188 3 6890 4	1 16.18 2 1.38 3 3.73 6 28 6 0.58 6 0.38 8 5.83 9 0.18 5 0.32	655 555 150 144 253 261 150 236 77 2100	89.2 95.2 20.6 95.6 39.0 51.0 90.8 02.3	0.10 1.97 0.19 3.63 0.32 1.46 0.09 2.00 0.06 2.53	401.1 7987.3 751.7 14691.2 1295.2 5912.7 359.5 8107.9 253.0	153.1 572.2 225.1 931.1 290.1 292.7 85.6 612.2 95.5 810.1	0.37 1.79 0.70 2.83 0.88 1.27 0.37 1.58 0.25	11.58 3.31 15.94 6.27 25.26 7.87 11.35 3.32 14.12 2.20 17.73 4.64	19.39 5.55 5.16 2.03 7.73 2.41 6.90 2.02 6.19 0.97 6.08	172.98 49.50 46.07 18.12 68.92 21.48 61.57 18.00 55.22 8.61 54.21	1.39 0.40 2.73 1.07 4.47 1.39 1.56 0.46 2.13 0.33 2.95 0.77	3.55 24.38 9.59 39.87 12.42 13.92 4.07 18.97 2.96 26.35
II III V VI		1.08 0.09 1.29 0.12 2.30 0.20 1.19 0.07 1.49 0.05 1.70	4387.1 374.2 5223.5 9307.1 820.6 4822.7 2933.6 6034.6 188.3 6890.4	1 16.19 2 1.38 3 7.3 3 6.28 5 0.55 7 6.46 3 0.39 3 5.83 9 0.18 4 5.20	655 553 150 14 253 222 6 261 151 236 210 210 12	89.2 95.2 20.6 95.6 39.0 51.0 90.8 02.3 36.6 54.1	0.10 1.97 0.19 3.63 0.32 1.46 0.09 2.00 0.06 2.53 0.15	401.1 7987.3 751.7 14691.2 1295.2 5912.7 359.5 8107.9 253.0 10240.2 620.6	153.1 572.2 225.1 931.1 290.1 292.7 85.6 612.2 95.5 810.1	0.37 1.79 0.70 2.83 0.88 1.27 0.37 1.58 0.25 1.99	11.58 3.31 15.94 6.27 25.26 7.87 11.35 3.32 14.12 2.20 17.73 4.64	19.39 5.55 5.16 2.03 7.73 2.41 6.90 2.02 6.19 0.97 6.08 1.59	172.98 49.50 46.07 18.12 68.92 21.48 61.57 18.00 55.22 8.61 54.21	1.39 0.40 2.73 1.07 4.47 1.39 1.56 0.46 0.46 2.13 0.33 2.95 0.77	3.55 24.38 9.59 39.87 12.42 13.92 4.07 18.97 2.96 26.35 6.90

ECTION	AGE		(SQ.M)	SECT LEN (M)		€2	POP.	VA N		CONF LOWE			MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/ WETTED	FISH (SC	.M) POOI
										·		· · ·					
SEP. 16-								٠									٠.
I.	0	419.5	14.3			42	. 292		8.5	283.		0.83	1.66	53.2	1.44	0.05	1.3
	I			* 5	36	11	52		8.9	43.		0.69	4.74	73.5	8.09	0.28	7.1
II	0	308.0	53.4	55		21.	302		2.3	298.			1.77	54.3	1.02	0.18	0.
	1				56	1.	57		0.0				5.81	.77.7	5.40	0.94	4
V	0	335.1	115.0	57		81	. 660		4.7.	649.			1.44	50.4	0.51	0.17	0.
	I.	i			51	11	65		7.6	59.		0.78	5.31	76.3	5.15	1.77	3.
	0	232.0	80.8	54		16	287		1.3	284		0.94	1.31	49.5	. 0.81	0.28	0.
	1				19.	3	23		1.1	20.			5:29	76.4	10.28	3.58	6.
	0.	362.9	74.8	. 75	-	50	418		4.4	410.		0.86	1.41.	50.6	0.87	0.18	0.
	1	392.1			9	7	. 41		9.0	-85.			5.80	79.8	8.96	1.85	7,
111	I	392.1	105.8	. 68		82	619		9.5	608.			1.58	52.7	0.63	0.17	0.
•	1				36	11	52	,	8.9	43.	2 60.5	0.69	5.45	78.4	7.56	2.04	5.
LL	0	2049.6	444.1	377	2237	292	2573	7	5.4	2555	5 2590.2	0.87	1.52	51.7	0.80	0.17	0.
	1				207	.44					0 273.7		5.37	76.7	7.80	1.69	6.
			WETTED		RI	FFLE	263	р		•	WETTED	WE	TTED	RI	FFLE		OOL
ECTION	AGE	FISH	/ FIS	H/		FFLE	SH/		00L	ISH/			TTED LB/	RI	FFLE LB/		DOL
		FISH SQ.	/ FIS	H/	RI FISH/	FFLE FI	SH/	FISH/	00L	ISH/	WETTED TOTAL WT	WE GM/	TTED LB/	RI GM/	FFLE LB/	GM/	DOL
EP. 16-		FISH SQ.	FISH M ACR	H/ E	FISH/ SQ. M	IFFLE FI AC	SH/ RE	FISH/ SQ. M	OOL FI	ISH/ CRE	WETTED TOTAL WT (GM)	WE GM/ SQ. M	TTED LB/ ACRE	RI GM/ SO. M	FFLE LB/ ACRE	GM/ SQ. M	DDL LB AC
EP. 16-	18/80	FISH 50.	/ FISM ACR	H/ E. .7	RI FISH/ SQ. M	FFLE FI ACI	5H/ RE	FISH/ SQ. M	00L F1 A0	ISH/ CRE	WETTED TOTAL WT (GM)	WE GM/ SQ. M	TTED LB/ ACRE	RI GM/ SO. M	FFLE LB/ ACRE	GM/ SQ. M	DDL LB AC
EP. 16-	18/80	FISH SQ.	/ FIS M ACR 0 2815 2 500	H/ E. .7	RI FISH/ SQ. M 20.41 3.63	FFLE FI ACI	5H/ RE 99.6	FISH/ SQ. M	00L F) A0	ISH/ CRE	WETTED TOTAL WT (GM)	WE GM/ SQ. M	10.29 5.22	RI GM/ SO. M	FFLE LB/ ACRE 301.85	GM/ SQ. M	DOL LB AC
EP. 16- I	18/80 0 I	0.7 0.1	/ FISIN ACR	.7 .1	RI FISH/ SQ. M	825 146 228	5H/ RE	FISH/ SQ. M	00L F) A0	ISH/ CRE 15.0 17.8 95.8	WETTED TOTAL WT (GM)	WE GM/ SQ. M	TTED LB/ ACRE	RI GM/ SO. M	FFLE LB/ ACRE 301.85 153.16 89.39	GM/ SQ. M	10. 5.
EP. 16- I	18/80 0 I	0.7 0.1 0.9	FISIN ACR	.7 .1 .3	RI FISH/ SQ. M 20.41 3.63 5.65	825 146 228 43	5H/ RE 99.6 71.1 65.5	FISH/ SQ. M 0.72 0.13 1.19	29: 5: 47: 90	ISH/ CRE	WETTED TOTAL WT (GM) 483.9 245.5 535.1	WE GM/ SQ. M 1.15 0.59 1.74 1.08	10.29 5.22 15.50 9.59	GM/ SO. M 33.84 17.17 10.02 6.20	FFLE LB/ ACRE 301.85 153.16 89.39 55.32	PC GM/ SQ. M	10. 5.
EP. 16- I II	18/80 0 I	0.7 0.1 0.9	/ FISIM ACR	.7 .1 .3 .2	RIFISH/ SQ. M 20.41 3.63 5.65 1.07	825 146 228 43 232	5H/ RE 99.6 71.1 55.5 21.2	0.72 0.13 1.19 0.22 3.00	29: 5: 47: 90:	ISH/ CRE 15.0 17.8 95.8 06.3	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2	WE GM/ SQ. M 1.15 0.59 1.74 1.08 2.83	10.29 5.22 15.50 9.59	GM/ SO. M 33.84 17.17 10.02	301.85 153.16 89.39 55.32	PC GM/ SQ. M	10. 5. 18.
EP. 16- I II	18/80 0 I	0.7 0.1 0.9 0.1	/ FISIM ACR	.7 .1 .3 .2 .5	RIFISH/ SQ. M 20.41 3.63 5.65 1.07 5.74	8255 1466 2288 433 232	5H/ RE 99.6 71.1 65.5 21.2	FISH/ SQ. M 0.72 0.13 1.19 0.22	291 51 475 90 1212	ISH/ CRE 15.0 17.8 95.8 96.3 27.3	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2 947.8	WE GM/ SQ. M 1.15 0.59 1.74 1.08	10.29 5.22 15.50 9.59 25.23 9.20	RII GM/ SO. M 33.84 17.17 10.02 6.20 8.24	301.85 153.16 89.39 55.32 73.51	PC GM/ SQ. M 1.19 0.61 2.10 1.30 4.31 1.57	10. 5. 18.
EP. 16- I II	18/80 0 I	0.7 0.1 0.9 0.1	7 FISIM ACR	H/ E .7 .1 .3 .2 .5 .3	20.41 3.63 5.65 1.07 5.74 0.57	825 146 228 43 232 241	99.6 71.1 65.5 21.2 10.6 88.3	0.72 0.13 1.19 0.22 3.00 0.30	291 51 475 90 1212 115 768	ISH/ CRE 15.0 17.8 95.8 96.3 27.3	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2 947.8 345.4	WE GM/ SQ. M 1.15 0.59 1.74 1.08 2.83 1.03	10.29 5.22 15.50 9.59 25.23 9.20	33.84 17.17 10.02 6.20 8.24 3.00	301.85 153.16 89.39 55.32 73.51	PC GM/ SQ. M 1 1.19 0.61 1 2.10 1 30 4 31 1 1.57 2 49	10. 5. 18. 11. 38. 14. 22.
EP. 16- I II	18/80 0 I 0 I 0 I	0.7 0.1 0.9 0.1 1.9	/ FISI M ACR 0 2815 2 500 9 749 7 7965 9 786 4 5006 0 393	H/ E .7 .1 .3 .2 .5 .3 .6 .6	RI FISH/ SQ. M 20.41 3.63 5.65 1.07 5.74 0.57 3.55	8255 1466 2286 433 232 221 1431	99.6 71.1 65.5 21.2 10.6 88.3 75.3	0.72 0.13 1.19 0.22 3.00 0.30 1.90	291 479 1212 115 768	ISH/ CRE 15.0 17.8 95.8 95.3 27.3 95.6 82.0	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2 947.8 345.4	WE GM/ SQ. M 1.15 0.59 1.74 1.08 2.83 1.03	10.29 5.22 15.50 9.59 25.23 9.20 14.47 4.59	RII GM/ SO. M 33.84 17.17 10.02 6.20 8.24 3.00 4.66	301.85 153.16 89.39 55.32 73.51 26.79 41.55	PC GM/ SQ. M 1.19 0.61 1.2.10 1.30 4.31 1.57 2.49 0.79	10. 5. 18. 11. 38. 14. 22.
EP. 16- I II	18/80 0 I 0 I 0 I	0.7 0.1 0.9 0.1 1.9 0.1	/ FISIM ACR	H/ E .7 .1 .3 .2 .5 .3 .6 .6 .2	RIFISH/ SQ. M 20.41 3.63 5.65 1.07 5.74 0.57 3.55 0.28	8255 1466 2286 433 232 221 1431 1111	99.6 71.1 55.5 21.2 10.6 375.3	0.72 0.13 1.19 0.22 3.00 0.30 1.90 0.15	291 51 479 91 1212 115 768 60	ISH/ CRE 15.0 17.8 95.8 96.3 27.3 95.6 82.0 03.9 72.6	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2 947.8 345.4 376.4 119.4	WE GM/ SQ. M 1.15 0.59 1.74 1.08 2.83 1.03 1.62 0.51	10.29 5.22 15.50 9.59 25.23 9.20 14.47 4.59	33.84 17.17 10.02 6.20 8.24 3.00 4.66 1.48	301.85 153.16 89.39 55.32 73.51 26.79 41.55	PC GM/ SQ. M 1.19 0.61 2.10 1.30 4.31 1.57 2.49 0.79 2.05	10. 5. 18. 11. 38. 14. 22. 7.
EP. 16- I II	18/80 0 I 0 I 0 I	0.7 0.1 0.9 0.1 1.9 0.1 1.2 0.1	/ FISM ACR	H/E .71132.55.36662.6	20.41 3.63 5.65 1.07 5.74 0.57 3.55 0.28 5.59	8255 146 2286 433 232 221 143 111 226 2 15	99.6 71.1 55.5 21.2 10.6 88.3 30.1	0.72 0.13 1.19 0.22 3.00 0.30 1.90 0.15 1.45	291 51 475 90 1212 115 766 587	ISH/ CRE 15.0 17.8 95.8 96.3 27.3 95.6 82.0	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2 947.8 345.4 376.4 119.4 591.3 235.0	WE GM/ SQ. M 1.15 0.59 1.74 1.08 2.83 1.03 1.62 0.51 1.63 0.65	10.29 5.22 15.50 9.59 25.23 9.20 14.47 4.59 14.53 5.78	RI GM/ SO. M 33.84 17.17 10.02 6.20 8.24 3.00 4.66 1.48 7.90 3.14	301.85 153.16 89.39 55.32 73.51 26.79 41.55 13.18	PC GM/ SQ. M 1.19 0.61 2.10 1.30 4.31 1.57 2.49 0.79 2.05 0.82	10. 5. 18. 11. 38. 14. 22. 7. 18. 7.
EP. 16- I II	18/80 0 I 0 I 0 I	0.7 0.1 0.9 0.1 1.9 0.1 1.2 0.1	/ FISM ACR 0 2815 0 2815 0 3964 9 749 7 7965 9 785 4 5006 0 393 5 4662 1 451 8 6391	T 1 3 2 5 3 6 6 6 2 6 8	20.41 3.63 5.65 1.07 5.74 0.57 0.28 0.28	8255 1466 2286 433 232 241 111 226 211 236	99.6 71.1 55.5 21.2 10.6 88.3 75.3 19.1	0.72 0.13 1.19 0.22 3.00 0.30 1.90 0.15 1.45	291 475 90 1212 115 768 60 587	15.0 17.8 95.8 95.8 95.6 95.6 92.0 93.9 72.6	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2 947.8 345.4 376.4 119.4 591.3	WE GM/ SQ. M 1.15 0.59 1.74 1.08 2.83 1.03 1.62 0.51 1.63	10.29 5.22 15.50 9.59 25.23 9.20 14.47 4.59 14.53 5.78	33.84 17.17 10.02 6.20 8.24 3.00 4.66 1.48 7.90	301.85 153.16 89.39 55.32 73.51 26.79 41.55 13.18 70.51	PC GM/ SQ. M 1.19 0.61 1.30 4.31 1.57 2.49 0.79 2.05 0.82 3.41	10. 5. 18. 11. 38. 14. 22. 7. 18. 7.
EP. 16- II V	18/80 0 I 0 I 0 I 0 I	0.7 0.1 0.9 0.1 1.9 0.1 1.2 0.1 1.1 1.5 0.1	/ FISM ACR	H/E .7 .1 .3 .2 .5 .3 .6 .6 .2 .6 .8 .1	RIFISH/ SQ. M 20.41 3.63 5.65 1.07 7.74 0.57 3.55 0.28 5.59 0.54 5.85 0.49	8255 1466 2286 433 232 222 1431 111 226 211 2361	99.6 71.1 5521.2 10.6 88.3 75.3 19.1 91.2 88.4 83.0	0.72 0.13 1.19 0.22 3.00 0.30 1.90 0.15 1.45 0.14 2.16 0.18	291 475 475 90 1212 115 768 60 587 73	15.0 17.8 95.6 95.6 95.6 95.6 95.6 95.6 95.6 95.9 93.8	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2 947.8 345.4 376.4 119.4 591.3 235.0 977.2 282.3	WE GM/ SQ. M 1.15 0.59 1.74 1.08 2.83 1.03 1.62 0.51 1.63 0.65 2.49 0.72	10.29 5.22 15.50 9.59 25.23 9.20 14.47 4.59 14.53 5.78 22.23 6.42	RII GM/ SO. M 33.84 17.17 10.02 6.20 8.24 3.00 4.66 1.48 7.90 3.14 9.24 2.67	301.85 153.16 89.39 55.32 73.51 26.79 41.55 13.18 70.51 28.02 82.38 23.80	PC GM/ SQ. M 1.19 0.61 2.10 1.30 4.31 1.57 2.49 0.79 2.05 0.82 3.41 0.99	10. 5. 18. 11. 38. 14. 22. 7. 18. 7. 30. 8.
EP. 16- I II	18/80 0 I 0 I 0 I 0 I	0.7 0.1 0.9 0.1 1.9 0.1 1.2 0.1 1.1	/ FISM ACR  0 2815 2 500 8 3964 9 749 7 7965 9 785 4 5006 0 393 5 4662 1 451 8 6391 3 535	TE .71.32.53.66.2.68.1	20.41 3.63 5.65 1.07 5.75 0.28 5.59 0.54	825: 148 228: 43: 232 22: 143: 11: 26: 21: 236: 19:	99.6 71.1 65.5 21.2 10.6 88.3 75.3 30.1 19.1 298.4	0.72 0.13 1.19 0.22 3.00 0.30 0.15 1.45 0.14	291 475 475 90 1212 115 766 587 56	ISH/ CRE 15.0 17.8 95.8 96.3 27.3 95.6 92.0 93.9 76.8 95.9	WETTED TOTAL WT (GM) 483.9 245.5 535.1 331.2 947.8 345.4 376.4 119.4 591.3 235.0 977.2	WE GM/ SQ. M 1.15 0.59 1.74 1.08 2.83 1.03 1.62 0.51 1.63 0.65 2.49	10.29 5.22 15.50 9.59 25.23 14.47 4.59 14.53 5.78 22.23 6.42	RII GM/ SO. M 33.84 17.17 10.02 6.20 8.24 3.00 4.66 1.48 7.90 3.14 9.24	301.85 153.16 89.35 55.32 73.51 26.79 41.55 13.18 70.51 28.02	PC GM/ SQ. M 1.19 0.61 2.10 1.30 4.31 1.57 2.49 0.79 2.05 0.82 3.41 0.99	10. 5. 18. 11. 38. 14. 22. 7. 18. 7.

SECTION	AGE	AREA (S	GO.H) RIFFLE	LEN (H)	H	c	R	POP	VAR.	95 PEI CONF. LOWER	RCENT LIMITS UPPER	MEAN WEIGHT (GM)	MEAN LENGTH (MH)	AREA/ WETTED	FISH (SO RIFFLE	POOL
AUG. 6-8 ALL	O I II+	2445.0	893.4	610	22 18 44	41 10 17	4 3 7	193 52 101	5480.4 347.5 632.8	45.1 15.0 50.9	341.3 89.5 151.6	0.64 4.93 15.02	40.3 71.8 107.4	12.66 46.79 24.15	4.62 17.10 8.82	8.03 29.70 15.32
SEP. 14- ALL	16/70 I II	2289.8	893.4	610	60 22 27	54 23 13	934	336 138 78	8372.3 3174.0 658.6	152.5 25.3 27.1					2.66 6.47 11.40	: '
SECTION	AGE	FISH/ SQ. H	FISH, ACRE	FI SQ	RII SH/	FFLE FI AC	SH/ RE	FISH/ SQ. H	FISH/ ACRE	WETTED TOTAL WY (GM)	WE GM/ SQ. H	TTED LB/ ACRE	RII GH/ SQ. H	FFLE LB/ ACRE	GM/ SQ. H	OL LB/ ACRE
AUG. 6-8 ALL	/70 0 I II+	0.08 0.02 0.04	86.5	5 0	22 .06	2	75.2 36.7 58.7	0.12 0.03 0.07	503.9 136.3 264.1	123.6 257.6 1520.8	0.05 0.11 0.62	0.45 0.94 5.55	0.14 0.29 1.70	1.23 2.57 15.18	0.08 0.17 0.98	0.71 1.48 8.74
SEPT. 14 ALL	-16/70 0 I II	0.15 0.06 0.03	593.0 243.9 138.6	0	38 15 09	15	19.8 25.1 55.1	0.24 0.10 0.06	972.3 399.9 227.2		0.21 0.42 0.66			4.89 9.55 15.19		3.13 6.11 9.72

			SECT.					95	PERCENT		MEAN	MEAN:			
	AREA	(SQ.M)	LEN			POP.	VAR	. CON	F. LIMITS		WEIGHT	LENGTH	AREA/	FISH (SQ	.M)
SECTION AGE	WETTED	RIFFLE	(M)	C1	C2	N	N	LOW	ER UPPER	P	(GM)	(MM)	WETTED	RIFFLE	P00
JULY 31-AUG.	2/72														
I. 0	338.7	59.0	60	7	3	12	: 17	.2 3	.9 20.6	0.57	0.33	33.1	27.65	4.82	22.8
. 1+11			-	9	2	12			.1 14.0	0.78			29.27	5.10	24.
11 0	. 347.6	101.1	83	36	24	108	2160			0.33	0.33	33.1	3.22	0.94	2.5
. I+It				7	3	12	17	.2 . 3	.9 20.6	0.57			28.38	8.25	20.
V. 0	321.8	43.8	68	8	2	11	. 2	.0. 7	.9 13.5	0.75	0.33	33.1	30.17	4.11	26.
I+II				9	2	12	1			0.78			27.81	3.79	24.
/I 0	325.4	40.3	65	24	13	52	246	.0 21	.0 83.7	0.46	0.33	33.1	6.21	0.77	5.
. 1+1.1				14	4	20	. 5	.6 14	.8 . 24.4	0.71			16.60	2.06	14.
III O	245.1	123.1	73	72	39	157	738	.0 102	.8 211.4	0.46	0.33	33.1	1.56	0.78	0.
1+11				14	8	33	212	.9 3	.5 61.9	0.43			7.50	3.77	3.
LL O	1578.6	367.3	349	147	81	327	1703	.6 244	.9 410.0	0.45	0.33	33.1	4.82	1.12	3.
						63					5.23	73.8	25.06	5.83	19.
						20					19.77	116.2	78.93	18.36	60.
													40 44		14.
1+11			٠	53	19	83	54	,6 67	.8 97.4	0.64	2 *		19,11	4.45	14.
	*	VETTED.				83					TEN	DII			
1411		VETTED FISH	/ F	. RI	FFLE		PO	OL	WETTED	WET			FLE	PO	DL
	*	FISH				<i>;</i>	PO FISH/				TTED . LB/ ACRE	GM/ SQ. M			OL LB
ECTION AGE	FISH,	FISH		RI ISH/	FFLE FISH	<i>;</i>	PO FISH/	OL FISH/	WETTED TOTAL WT	WE1	LB/	GM/	FLE LB/	PO GM/	OL LB
ECTION AGE	FISH, 50. I	FISH A ACRE		RI ISH/	FFLE FISH ACRE	<i>i</i> ,	PO FISH/ SQ. M	OL FISH/ ACRE	WETTED TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ 50. M	FLE LB/ ACRE	PO GM/ SQ. M	DL LB AC
ECTION AGE ULY 31-AUG.	FISH, SO. 1	FISH ACRE	4	RI ISH/ IQ. M	FFLE FISH ACRE	,	PO FISH/ SQ. M	PISH/ ACRE	WETTED TOTAL WT	WE1	LB/ ACRE	GM/	FLE LB/	PO GM/ SQ. M	DL LB AC
ECTION AGE ULY 31-AUG. I O I+II	FISH, SO. 1	FISH ACRE 1 146.	4 3	RI ISH/ Q. M	FFLE FISH ACRE 840 793	3 .7	PO FISH/ SQ. M	DL FISH/ ACRE	WETTED TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	FLE LB/ ACRE	GM/ SQ. M	DL LB AC
ULY 31-AUG. I O I+II	FISH, SO. I	FISH ACRE 146. 138. 1257.	4 3 4	RI ISH/ Q. M	FFLE FISH ACRE 840 793 4323	3 .7 .2	PO FISH/ SQ. M	177.2 167.4 1773.1	WETTED TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ 50. M	FLE LB/ ACRE	GM/ SQ. M	DL LB AC
ECTION AGE  ULY 31-AUG. I O I+II II O I+II	FISH, SO. 1	FISH ACRE 146. 138. 1257. 142.	4 3 4 6	RI ISH/ Q. M 0.21 0.20 1.07 0.12	FFLE FISH ACRE 840 793 4323 490	3 .7 .2 .4	PO FISH/ SQ. M 0.04 0.04 0.44 0.05	177.2 167.4 1773.1 201.1	WETTED TOTAL WT (GM)	GM/ SO. M	0.11 0.91	GM/ SQ. M 0.07 0.35	FLE LB/ ACRE	QM/ SQ. M	O. 1.
ECTION AGE  ULY 31-AUG. I O I+II II O I+II	FISH, 50. I	FISH ACRE 1 146. 1 138. 1 1257. 1 142. 1 134.	4 3 4 6 1	RI ISH/ Q. M 0.21 0.20 1.07 0.12 0.24	FFLE FISH ACRE 840 793 4323 490 985	.3 .7 .2 .4 .6	PO FISH/ SO. M 0.04 0.04 0.05 0.04	177.2 167.4 1773.1 201.1	WETTED TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	FLE LB/ ACRE	GM/ SQ. M	O. 1.
ECTION AGE  ULY 31-AUG. I O I+II II O I+II V O I+II	FISH, 50. I	FISH ACRE 146. 138. 1257. 142. 1 134. 145.	4 3 4 6 1 5	RI ISH/ Q. M 0.21 0.20 1.07 0.12	FFLE FISH ACRE 840 793 4323 490	3 .7 .2 .4 .6 .2	PO FISH/ SQ. M 0.04 0.04 0.44 0.05	177.2 167.4 1773.1 201.1	WETTED TOTAL WT (GM)  4.0 35.6 3.5	GM/ SQ. M 0.01 0.10 0.01	0.11 0.91	GM/ SQ. M 0.07 0.35 0.08	0.61 3.14	O.01 0.01	O. 1. O.
ECTION AGE  ULV 31-AUG. I O I+II I O I+II V O I+II I O, I+II I I I I I I I I I I I I I I I I I	2/72 0.00 0.03 0.04 0.03	FISH ACRE  146. 138. 1257. 142. 134. 145. 651.	4 3 4 6 1 5 2	RI ISH/ Q. M 0.21 0.20 1.07 0.12 0.24 0.26	FFLE FISH ACRE 840 793 4323 490 985 1069	.3 .7 .2 .4 .6 .2 .5	PO FISH/ SQ. M 0.04 0.04 0.05 0.05 0.04	177.2 167.4 1773.1 201.1 155.3 168.5	WETTED TOTAL WT (GM)	GM/ SO. M	0.11 0.91	GM/ SQ. M 0.07 0.35	FLE LB/ ACRE	O.01 0.01	O. 1.
JLY 31-AUG. 1	2/72 0.04 0.03 0.04 0.03	FISH ACRE  4 146. 138. 1 1257. 142. 1 134. 1 145. 6 651.	4 3 4 4 6 6 1 5 2 8	RI ISH/ Q. M 0.21 0.20 1.07 0.12 0.24 0.26 1.30	FFLE FISH ACRE 840 793 4323 490 985 1069 5258	.3 .7 .2 .4 .6 .2 .5 .3	PO FISH/ SQ. M 0.04 0.04 0.05 0.04 0.04 0.04	177.2 167.4 1773.1 201.1 155.3 168.5 743.3 278.2	WETTED TOTAL WT (GM)  4.0 35.6 3.5	WE GM/ 50. M 0.01 0.10 0.01	0.11 0.91 0.47	GM/ SQ. M 0.07 0.35 0.08	0.61 3.14	O.01 0.01 0.14 0.01 0.06	O. 1. O. O.
JLY 31-AUG. 1	FISH, SO. 1	FISH ACRE  146. 138. 1257. 142. 134. 145. 651. 243. 2593.	4 3 4 6 1 5 2 8 8	RI ISH/ Q. M 0.21 0.20 1.07 0.12 0.26 1.30 0.49	FFLE FISH ACRE 840 793 4323 490 985 1069 5258 1968	.3 .7 .2 .4 .6 .2 .5 .3 .5	PO FISH/ SQ. M 0,04 0.04 0.05 0.04 0.04 0.05	177.2 167.4 1773.1 201.1 155.3 168.5 743.3	WETTED TOTAL WT (GM) 4.0 35.6 3.5	GM/ SQ. M 0.01 0.10 0.01	0.11 0.91 0.47	GM/ SQ. M 0.07 0.35 0.08 0.43	0.61 3.14 0.72 3.82	O.01 0.01 0.14 0.01 0.06	O. 1. O. O.
ECTION AGE  ULY 31-AUG. I O	FISH, SO. 1	FISH ACRE  146. 138. 1257. 142. 134. 145. 651. 6243. 2593. 539.	4 3 3 4 4 6 6 1 5 5 2 8 8 8 4	RII ISH/ Q. M 0.21 0.20 1.07 0.12 0.24 0.26 1.30 0.49 1.28 0.27	FFLE FISH ACRE 840 793 4323 490 985 1069 5258 1968 5164 1073	.3 .7 .2 .4 .6 .2 .5 .3 .5 .9	PO FISH/ SQ. M 0.04 0.04 0.05 0.04 0.04 0.18 0.07 1.29 0.27	177.2 167.4 1773.1 201.1 155.3 168.5 743.3 278.2 5211.0	WETTED TOTAL WT (GM)  4.0  35.6  3.5  17.3  51.8	WE GM/ 50. M 0.01 0.10 0.01 0.05 0.21	0.11 0.91 0.10 0.47	QM/ SQ. M 0.07 0.35 0.08 0.43	0.61 3.14 0.72 3.82 3.76	O.01 0.01 0.14 0.01 0.06	O. 1. O. 3.
ECTION AGE  ULY 31-AUG. I O I+II I I O I+II	FISH, 50. I	FISH ACRE  146. 138. 1257. 142. 134. 145. 6651. 243. 2593. 539.	4 4 3 4 6 6 1 5 5 2 8 8 4 4	RII ISH/ Q. M 0.21 0.20 1.07 0.12 0.24 0.26 1.30 0.49 1.28 0.27	FFLE FISH ACRE 840 793 4323 490 985 1069 5258 1968 5164 1073	377.24.66.25.35.59.5	PO FISH/ SQ. M 0,04 0.04 0.05 0.04 0.04 0.05 0.07 1.29 0.27	177.2 167.4 1773.1 201.1 155.3 168.5 743.3 278.2 5211.0 1083.6	WETTED TOTAL WT (GM)  4.0 35.6 3.5 17.3 51.8	WET GM/ SQ. M 0.01 0.10 0.01 0.05 0.21 0.07	0.11 0.91 0.10 0.47 1.89	QM/ SQ. M 0.07 0.35 0.08 0.43 0.42	0.61 3.14 0.72 3.82 3.76	O.01 0.01 0.14 0.01 0.06 0.42	O. 1. O. 3.
ECTION AGE  ULY 31-AUG.  I O	FISH, 50. 1	FISH ACRE  146. 138. 1257. 142. 134. 145. 651. 243. 2593. 2593.	4 4 3 4 4 6 6 1 5 2 8 8 8 4 4 4 5 5	RII ISH/ Q. M 0.21 0.20 1.07 0.12 0.24 0.26 1.30 0.49 1.28 0.27	FFLE FISH ACRE 840 793 4323 490 985 1069 5258 1968 5164 1073	3 .7 .2 .4 .6 .2 .5 .3 .5 .9 .5 .1	PO FISH/ SQ. M 0.04 0.04 0.05 0.04 0.04 0.18 0.07 1.29 0.27	177.2 167.4 1773.1 201.1 155.3 168.5 743.3 278.2 5211.0	WETTED TOTAL WT (GM)  4.0  35.6  3.5  17.3  51.8	WE GM/ 50. M 0.01 0.10 0.01 0.05 0.21	0.11 0.91 0.10 0.47	QM/ SQ. M 0.07 0.35 0.08 0.43	0.61 3.14 0.72 3.82 3.76	0.01 0.14 0.01 0.06 0.42	OL LB

SECTION	AGE	AREA (		SECT LEN (M)		C2 -	POP.	. : :	VAR.	CON LOW			MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SC RIFFLE	
JUNE 25-	28/73														: : : : : : : : : : : : : : : : : : :		7
II	0	453.9	27.3	69	3	0	. 3		: 0.0	3	.0 3.	1.00	0.36	32.0	151:30	9.10	142 20
	1				2	2							5.20	72.0			
III	0	520.9	55.3	108	3	2	. 9		180.0	-17	.8 35.1	8 0.33	0.36	22.4	57.88	6.14	51:73
	1				3	2	9		180.0				5.20	78.6	57.88	6.14	51.7
IV	0	240.8	44:9	33	. 9	2 .	12		1.5	9	.1 14.	0.78	0.36	33.0	20.81	3.88	16.9
	I.		-		0	2							5.20	76.5			
VI	0	379.4	128.5	59	42	19	77		138.8	53	.1 . 100.	0.55	0.36	32.2	4.95	1.68	3.2
	I				5	3	13		112.5	-8	.7 . 33.	7 0.40	5.20	73.8	30.35	10.28	20.0
VIII.	0	336.3	102.4	71	5	3 :	13		112.5	8	.7 33.	7 0.40	0.36	31.1	26.90	8.19	18.7
	1			. 1	12:	1	. 13	::	0.1	. 12	.4 .13.4	0.92	5.20	69.9	25.69	7.82	17.8
ALL	0	1931.3	358.4	340	62	26	107		136.1				0.36	32.2	18.09	3.36	14.7
										4							
	1		ETTED		RI ISH/			FISI	POOL		WETTED		TTED		FFLE		OOL .
SECTION	AGE	FISH/	FISH	/ F	RI ISH/	FFLE FI:	5H/	FIS		FISH/	WETTED TOTAL W		LB/	RI GM/ SQ. M	LB/	GM/ SQ. M	LB/
SECTION		FISH/	FISH	/ F	ISH/	FI	5H/	FIS	4/	FISH/	TOTAL W	GM/	LB/	GM/	LB/	GM/	LB/
JUNE 25-2		FISH/	FISH	/ !	ISH/	FI:	5H/	FIS	<b>M</b>	FISH/	TOTAL W	GM/ SQ. N	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	ACRI
JUNE 25-2	28/73	FISH/	FISH ACRE	7	ISH/	FI:	SH/ RE	FISI SO.	M	FISH/ ACRE	TOTAL W	GM/ SQ. N	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	ACRI
JUNE 25-2	28/73 O I	FISH/ 50. M	FISH ACRE 26.	7	O.11	FIS ACI	5H/ RE	FISI SO.	1/ M	FISH/ ACRE 28.5	TOTAL W	GM/ SQ. N	0.02	GM/ SQ. M	O. 35	GM/ SQ. M 0.00	0,00
JUNE 25-2	28/73 O I	0.01 0.02	26. 69:	7 9 9 5	O.11 O.16 O.16 O.26	FI: ACI	SH/ RE 14.7	0.6 0.6	1/ M	FISH/ ACRE 28.5 78.2	1.1	GM/ SQ. M	0.02 0.06 0.80	GM/ SQ. M 0.04 0.06 0.85	O.35	GM/ SQ. M 0.00 0.01 0.10	0,00 0.00 0.90
JUNE 25-2	28/73 0 I 0 I 0 I	0.01 0.02 0.02 0.05	26. 69. 69.	7 9 9 5 5	O.11 O.16 O.16 O.26	44 61 61	14.7 18.6 18.6 13.0	0.0 0.0	1/ M	FISH/ ACRE 28.5 78.2 78.2	1.1 3.2 46.8	GM/ SQ. M	0.02 0.06 0.80	GM/ SQ. M 0.04 0.06 0.85	O.35	GM/ SQ. M 0.00 0.01 0.10	0,00 0.00 0.90
JUNE 25-2	28/73 O I	0.01 0.02 0.02 0.05 0.20	26. 69. 69. 194.	7 9 9 5 1	O.11 O.16 O.26 O.60	44 61 61 104	5H/ RE 14.7 18.6 18.6 13.0	0.0 0.0	1/ M	FISH/ ACRE 28.5 78.2 78.2	1.1 3.2 46.8	GM/ SQ. M	0.02 0.06 0.80 0.15	GM/ SQ. M 0.04 0.06 0.85	O.35 O.52 7.55 O.83	GM/ SQ. M 0.00 0.01 0.10 0.02	0.00 0.00 0.90
JUNE 25-2	28/73 0 I 0 I 0 I 0 I	0.01 0.02 0.02 0.05 0.20 0.03	26. 69. 69. 194.	7 9 9 5 1 3	O.11 O.16 O.16 O.26 O.60 O.10	44 61 61 104	5H/ SE 58.6 58.6 13.0	0.6 0.6 0.6	01 01 02 02 06 31 105	28.5 78.2 78.2 239.0 237.1 201.6	1.1 3.2 46.8 4,2	0.00 0.00 0.01 0.02	0.02 0.06 0.80 0.15	GM/ SQ. M 0.04 0.06 0.85 0.09	O. 52 7. 55 O. 83	GM/ SQ. M 0.00 0.01 0.10 0.02	0.00 0.00 0.90 0.10
JUNE 25-2	28/73 0 I 0 I 0 I 0 I	0.01 0.02 0.02 0.05 0.03 0.03	26. 69. 69. 194. 818. 133.	7 9 9 5 1 3 4	0.11 0.16 0.16 0.26 0.60 0.10	44 61 65 104 24 35	5H/ RE 14.7 58.6 58.6 13.0 15.5 03.7	0.6 0.6 0.6 0.6 0.6	01 02 02 06 05 05	FISH/ ACRE 28.5 78.2 78.2 239.0 237.1 201.6 216.3	1.1 3.2 46.8 4.2	0.00 0.00 0.01 0.02	0.02 0.06 0.80 0.15 0.65	GM/ SQ. M 0.04 0.06 0.85 0.09	O. 52 7. 55 O. 83	GM/ SQ. M 0.00 0.01 0.10 0.02 0.11 0.26	0.00 0.00 0.90 0.11
JUNE 25-2	28/73 0 I 0 I 0 I 0 I	0.01 0.02 0.02 0.05 0.20 0.03	26. 69. 69. 194. 818. 133.	7 9 9 5 1 3 4	O.11 O.16 O.16 O.26 O.60 O.10	44 61 65 104 24 35	5H/ SE 58.6 58.6 13.0	0.6 0.6 0.6 0.6	01 02 02 06 05 05	28.5 78.2 78.2 239.0 237.1 201.6	1.1 3.2 46.8 4.2 27.6 65.0	0.00 0.00 0.01 0.09 0.02	0.02 0.06 0.80 0.15 0.65 1.53	GM/ SQ. M 0.04 0.06 0.85 0.09	O. 35 O. 52 7. 55 O. 83	GM/ SQ. M 0.00 0.01 0.10 0.02 0.11 0.26 0.02	0,00 0.00 0.90 0.11 0.91 2.3
JUNE 25-2	28/73 0 I 0 I 0 I 0 I	0.01 0.02 0.02 0.05 0.03 0.03	26. 69. 69. 194. 818. 133. 150.	7 9 9 9 5 5 1 3 3 4 4 5 5	0.11 0.16 0.16 0.26 0.60 0.10	61 65 10 24 35	5H/ RE 14.7 58.6 58.6 13.0 15.5 03.7	0.6 0.6 0.6 0.6 0.6	01 02 02 02 06 31 105 06	FISH/ ACRE 28.5 78.2 78.2 239.0 237.1 201.6 216.3	1.1 3.2 46.8 4.2 27.6 65.0 4.5	0.00 0.01 0.09 0.02 0.07 0.07	0.02 0.06 0.80 0.15 0.65 1.53 0.12	GM/ SQ. M 0.04 0.06 0.85 0.09 0.21 0.51	LB/ ACRE 0.35 0.52 7.55 0.83 1.92 4.51 0.39	GM/ 50. M 0.00 0.01 0.10 0.02 0.11 0.26 0.02 0.29	LB/ ACRE

ECTION AC	333.8 I I D 310.1 I I D 218.9 I 246.3 I D 190.1	9.6	82 12 3 2 34 36 2 52 164 51 137 11 282 368 4	0 1 6 2 4 1 21 8 1 95 39 2 80 32 1 1 204 82 8 3	8 (4 1: 4 7: 4 1: 6 64: 4 1: 0 277: 8 2: 9 246: 2 45: 9 1:	2.0 -2 2.0 7 2.0 -2 2.5 35 2.0 -2 3.6 284 3.0 -1 3.3 229 3.1 11	.0 8.0 9 10.9 .0 41.0 .9 10.9 .7 137.1 .9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9	0.50	O.65 6.85 18.50 O.85 7.48 18.50 O.87 12.18 O.69 5.31 O.64 5.62 O.65 6.75 18.50	38.3 81.3 118.7 40.8 83.6 134.7 42.9 105.0 39.5 74.0 36.0 75.5	15.72 41.72 83.45 12,92 77.53 2.53 54,72 0.63 30.78 0.58 15.71 1.57 33.14 162.40	1.20 3.17 6.35 0.40 2.40 0.38 8.20 0.08 4.03 0.15 4.07 0.18 3.81 18.66	14.5 38.5 77.1 12.5 75.1 46.5 0.5 26.7 11.6
I O I I I I I I I I I I I I I I I I I I	333.8 I I I I I I I I I I I I I I I I I I I	9.6 32.8 32.2 49.3 149.3	82 12 3 2 34 36 2 52 164 51 137 11 282 368 4	0 1 6 2 4 1 21 8 1 95 39 2 80 32 1 1 204 82 8 3	8 (4 1: 4 7: 4 1: 6 64: 4 1: 0 277: 8 2: 9 246: 2 45: 9 1:	0.0 8 1.0 -2 1.0 7 1.0 -2 1.5 35 1.0 -2 3.6 284 1.0 -1 1.3 229 0.1 11 6.3 692 3.3 32	.0 8.0 9 10.9 .0 41.0 .9 10.9 .7 137.1 .9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9	1.00 0.50 0.50 0.50 0.42 0.50 0.42 0.50 0.42 0.91	6.85 18.50 0.85 7.48 18.50 0.87 12.18 0.69 5.31 0.54 5.62 0.65 6.75	81.3 118.7 40.8 83.6 134.7 42.9 105.0 39.5 74.0 36.0 75.5	41.72 83.45 12,92 77.53 2.53 54.72 0.63 30.79 0.58 15.71 1.57 33.14	3.17 6.35 0.40 2.40 0.38 8.20 0.08 4.03 0.15 4.07	38.5 77.1 12.5 75.1 2.1 46.5 0.5 26.7 0.4 11.6
III 0 III 0 III III 0 III III 0 III III	1 310.1 1 1 218.9 1 246.3 1 190.1	9.6 32.8 32.2 49.3 149.3	82 12 3 2 34 36 2 52 164 51 137 11 282 368 4	0 1 6 2 4 1 21 8 1 95 39 2 80 32 1 1 204 82 8 3	8 (4 1: 4 7: 4 1: 6 64: 4 1: 0 277: 8 2: 9 246: 2 45: 9 1:	0.0 8 1.0 -2 1.0 7 1.0 -2 1.5 35 1.0 -2 3.6 284 1.0 -1 1.3 229 0.1 11 6.3 692 3.3 32	.0 8.0 9 10.9 .0 41.0 .9 10.9 .7 137.1 .9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9	1.00 0.50 0.50 0.50 0.42 0.50 0.42 0.50 0.42 0.91	6.85 18.50 0.85 7.48 18.50 0.87 12.18 0.69 5.31 0.54 5.62 0.65 6.75	81.3 118.7 40.8 83.6 134.7 42.9 105.0 39.5 74.0 36.0 75.5	41.72 83.45 12,92 77.53 2.53 54.72 0.63 30.79 0.58 15.71 1.57 33.14	3.17 6.35 0.40 2.40 0.38 8.20 0.08 4.03 0.15 4.07	38.5 77.1 12.5 75.1 2.1 46.5 0.5 26.7 0.4 11.6
II 0 I I I I I I I I I I I I I I I I I	310.1 I I D 218.9 I 246.3 I 190.1 I 1299.2	32.8 32.2 49.3 149.3	282 123 34 36 52 164 51 137 11 282 368 4	1 6 2 4 1 1 21 8 1 95 39 2 80 32 1 1 1 204 82 8 3 2	4 1: 4 7: 4 1: 6 64: 4 1: 0 277: 8 2: 9 2:46: 6 4:45: 9 1:	2.0 -2 2.0 7 2.0 -2 2.5 35 2.0 -2 3.6 284 3.0 -1 3.3 229 3.1 11	.9 10.9 .0 41.0 .9 10.9 .7 137.1 .9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9	0.50 0.50 0.42 0.50 0.42 0.50 0.42 0.91	18.50 0.85 7.48 18.50 0.87 12.18 0.69 5.31 0.54 5.62 0.65 6.75	118.7 40.8 83.6 134.7 42.9 105.0 39.5 74.0 36.0 75.5	83.45 12,82 77.53 2.53 54.72 0.63 30.79 0.58 15.71 1.57 33.14	6.35 0.40 2.40 0.38 8.20 0.08 4.03 0.15 4.07	77.10 12.5 75.1 2.10 46.5 0.5 26.7 0.4 11.6
II 0 I I I I I I I I I I I I I I I I I	310.1 I I D 218.9 I 246.3 I 190.1 I 1299.2	32.8 32.2 49.3 149.3	82 12 3 34 36 52 164 51 137 11 282 368 28	6 2 4 1 21 8 1 95 38 2 80 32 1 1 204 82 8 3	4 1: 6 64: 4 1: 0 277: 8 2: 9 246: 2 6 445:	2.0 7 2.0 -2 3.5 35 3.6 284 3.0 -1 3.3 229 3.1 11 3.3 692 3.3 32	.0 41.0 .9 10.9 .7 137.1 .9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9 .2 959.3 .5 45.9	0.50 0.42 0.50 0.42 0.50 0.42 0.50 0.42 0.91	0.85 7.48 18.50 0.87 12.18 0.69 5.31 0.54 5.62	40.8 83.6 134.7 42.9 105.0 39.5 74.0 36.0 75.5	12,92 77.53 2.53 54,72 0.63 30.79 0.58 15.71 1.57 33.14	0.40 2.40 0.38 8.20 0.08 4.03 0.15 4.07	12.5 75.1 2.1 46.5 0.5 26.7 0.4 11.6
I III O I I I I I I I I I I I I I I I I	218.9 1 246.3 1 246.3 1 190.1	32.8 32.2 49.3 149.3	34 36 2 2 52 164 4 51 137 11 282 368 4	4 1 21 8 95 80 32 80 1 1 204 8 2	4 12 6 64 4 12 0 277: 8 24 9 246 2 (	2.0 -2 3.5 35 1.0 -2 3.6 284 1.0 -1 1.3 229 1.1 11 1.3 692 1.3 32	.9 10.9 .7 137.1 .9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9	0.50 0.42 0.50 0.42 0.50 0.42 0.91	7.48 18.50 0.87 12.18 0.69 5.31 0.54 5.62	83.6 134.7 42.9 105.0 39.5 74.0 36.0 75.5	77.53 2.53 54.72 0.63 30.79 0.58 15.71 1.57 33.14	2.40 0.38 8.20 0.08 4.03 0.15 4.07	75.1 2.1 46.5 0.5 26.7 0.4 11.6
V 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	218.9 I 246.3 I 190.1 I 1299.2	32.2 49.3 149.3	34 36 2 2 52 164 4 51 137 11 282 368 28	21 8 1 95 39 2 80 32 1 1 204 82 8 3	6 64 4 12 0 277 8 24 9 246 2 6 445 9 1	3.5 35 3.0 -2 3.6 284 3.0 -1 3.3 229 3.1 11 3.3 692 3.3 32	.7 137.1 .9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9 .2 959.3 .5 45.9	0.42 0.50 0.42 0.50 0.42 0.91 0.45	18.50 0.87 12.18 0.69 5.31 0.54 5.62 0.65 6.75	134.7 42.9 105.0 39.5 74.0 36.0 75.5 38.5 80.6	2.53 54.72 0.63 30.79 0.58 15.71 1.57 33.14	0.38 8.20 0.08 4.03 0.15 4.07 0.18 3.81	2.1 46.5 0.5 26.7 0.4 11.6
V 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	218.9 I 246.3 I 190.1 I 1299.2	32.2 49.3 149.3	34 36 2 2 52 164 4 51 137 11 282 368 28 4	21 8 1 95 39 2 80 32 1 1 204 82 8 3	6 64 4 12 0 277 8 24 9 246 2 6 445 9 1	3.5 35 3.0 -2 3.6 284 3.0 -1 3.3 229 3.1 11 3.3 692 3.3 32	.7 137.1 .9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9 .2 959.3 .5 45.9	0.42 0.50 0.42 0.50 0.42 0.91 0.45	0.87 12.18 0.69 5.31 0.54 5.62 0.65 6.75	42.9 105.0 39.5 74.0 36.0 75.5 38.5 80.6	2.53 54.72 0.63 30.79 0.58 15.71 1.57 33.14	0.38 8.20 0.08 4.03 0.15 4.07 0.18 3.81	2.1 46.5 0.5 26.7 0.4 11.6
I 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	246.3 D 190.1	32.2 49.3 149.3	52 164 4 51 137 11 282 368 28 4	1 95 38 2 80 322 1 1 1 204 82 8 3	4 12 0 2773 8 24 9 2465 2 6 4456 9 1	2.0 -2 3.6 284 1.0 -1 3.3 229 3.1 11 3.3 692	.9 10.9 .5 495.1 .8 17.8 .9 428.7 .3 12.9 .2 959.3 .5 45.9	0.50 0.42 0.50 0.42 0.91 0.45 0.71	12.18 0.69 5.31 0.54 5.62 0.65 6.75	105.0 39.5 74.0 36.0 75.5	54,72 0,63 30,79 0,58 15,71 1,57 33,14	8.20 0.08 4.03 0.15 4.07 0.18 3.81	46.5 0.5 26.7 0.4 11.6
III 0 I I I I I I I I I I I I I I I I I	190.1 1 199.2	49.3 149.3	52 164 4 51 137 11 282 368 28 4	95 38 2 80 32 1 1 204 82 8 3	0 277: 8 246: 9 246: 2 6 445: 9 1	3.6 284 3.0 -1 3.3 229 3.1 11 3.3 692	.5 495.1 .8 17.8 .9 428.7 .3 12.9 .2 959.3 .5 45.9	0.42 0.50 0.42 0.91 0.45 0.71	0.69 5.31 0.54 5.62 0.65 6.75	39.5 74.0 36.0 75.5 38.5 80.6	0.63 30.79 0.58 15.71 1.57 33.14	0.08 4.03 0.15 4.07 0.18 3.81	0.5 26.7 0.4 11.6
III 0 I I I I I I I I I I I I I I I I I	190.1 1 199.2	49.3 149.3	51 137 11 282 368 28 4	2 80 32 1 1 204 82 8 3	8 2469 9 2469 2 6 4450 9 1	1.0 -1 1.3 229 1.1 11 1.3 692	.8 17.8 .9 428.7 .3 12.9 .2 959.3 .5 45.9	0.50 0.42 0.91 0.45 0.71	5.31 0.54 5.62 0.65 6.75	74.0 36.0 75.5 38.5 80.6	30.78 0.58 15.71 1.57 33.14	4.03 0.15 4.07 0.18 3.81	26.7 0.4 11.6
I O I I I I I I I I I I I I I I I I I I	1 0 1299.2 1 1	149.3	282 368 28 4	80 32 1 1 204 82 8 3	9 2469 2 (6 4450 9 1	0.3 229 0.1 11 0.3 692 1.3 32	.9 428.7 .3 12.9 .2 959.3 .5 45.9	0.42 0.91 0.45 0.71	0.54 5.62 0.65 6.75	36.0 75.5 38.5 80.6	0.58 15.71 1.57 33.14	0.15 4.07 0.18 3.81	11.6
I O I I I I I I I I I I I I I I I I I I	1 0 1299.2 1 1	149.3	282 368 28 4	1 1 204 82 8 3 2	2 6 4456 9 1	0.1 11 6.3 692	.3 12.9 .2 959.3 .5 45.9	0.91 0.45 0.71	5.62 0.65 6.75	75.5 38.5 80.6	15.71 1.57 33.14	4.07 0.18 3.81	11.6
ECTION AG	11.		282 368 28 4	204 82 8 3 2	6 4450	.3 692 .3 32	.2 959.3 .5 45.9	0.45	0.65	38.5	1.57	0.18	1.
ECTION AG	11.		28 4	8 3	9 1	.3 32	.5 45.9	0.71	6.75	. 80.6	33.14	3.81	29.3
ECTION AG	11.		28 4	8 3	9 1	.3 32	.5 45.9	0.71	6.75	. 80.6	33.14	3.81	29.3
ECTION AC	i1.	WETTED	4	2									
ECTION AC		WETTED					. 17.0	0.50	10.50	120.7	102.40	10.00	143.
JG. 7-9/73		WETTED											
JG. 7-9/73		WETTED			1 .			,			. 4 9 .	: " /	
JG. 7-9/73	FISH			IFFLE:		OL	WETTED		TED		FFLE		OOL .
JG. 7-9/73					FISH/	FISH/	TOTAL WT	GM/	LB/	GM/	LB/	GM/	LB/
0 1	AGE SQ.	M ACRE	SQ. M	ACRE	SQ. M	ACRE	(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	ACE
0 1					;				,		*)		1.
													1
				3383.4	0.07	278.7	13.8	.0.04	0.37	0.54			
I				1274.6	0.03	105.0	. 54.8	0.16	1.46	2.16	19.25		
11					0.01	52.5	74.0	0.22	1.98	2.91			
11 0		8 313.	2 2.50	10117.5	0.08	323.2	20.3	0.07	0.59	2.12	18.90	0.07	0.6
i		1 52.	2 0.42	1686.3	0.01	53.9	74.0	0.24	2.13	7.71	68.76	0.25	2.5
, 6					0.46	1878.9	75.3	0.34	3.07	2.29			
ī					0.02	87.0		0.34	1.99		13.25		
ı ö										1.49 8.39			
1					0.04	7368.1	270.1	1.10	9.78				
0 111						151.2	42.5	0.17	1.54	1.32			
11					2.34	9464.5	176.3	0.93	8.27	3.58	31.90		
1	0.0	25/.	6 0.25	993.3	0.09	347.8	68.0	0.36	3.19	1.38	12.30	0.48	4.5
L O	0.6	4 2572.	2 5.53	22383.4	0.72	2906.2	540:1	0.42	3.71	3.62	32.27	0.47	4.
ī				1062.6	0.03	138.0	264.6	0.20	1.82	1.77			
iı					0.03	28.2	148.0	0.11	1.02	0.99			

															, . · · ·	1 1 34		
dix	table	II (co	nt'd)	SECT		,				95 5	PERCENT	4	MEAN	MEAN				11 1
TION	AGE	WETTED		LEN (M)		C2 .	POP.	VAR		CONF.	. LIMITS		WEIGHT (GM)	LENGTH (MM)	WETTED .	FISH (SO	POOL	
. 10-	13/73		- :											40.4			21.92	
	0	286.9	18.4	67	7	3	12		.3	3.5		0.57	5.76	49.7	23.42 63.76	1.50	59.67	
	iı		. 5		6	ó	6		0.0	6.0		1.00	13.29	109:2	47.82		. 44.75	
	0	298.6	. 11.1	82	13	1.1	14		1.	13.4		0.92	1.94	59.4	21.20	0.79	20.41	
1.	1				3	2	9	: 180	0.0	-17.8	8 35.8	0.33	7.84	93.6	33.18.	1.23	31.94	
	III				1	0	. 1		0.0	1.0	1.0	1.00	15.00	122.0	298.60	11.10	287.50	
	0	289.3	10.2	44	44	23	92	352		54.6		0.48	0.99	49.2	3.14	0.11	3.03	
1	: I				1	0	. 1	. 0	.0 .	1.0	1.0	1.00	3.13	72.0	289.30	10.20	279:10	
	0	193.1	64.2	38	68	36	145	594		95.7		0.47	0.79	45.8	1.34	0.44	0.89	
	0	114.4	0.0	52	46	22	88	209	.9	59.2	2 117.1	0.52	0.85	83.5	1.30	0.00	1.30	1
	ii				0	1							25,72	120.0			100	
1	0	180.1	48.3	52	130	53	219	247		188.0		0.59	0.67	42.1	0.82	0.22	0.60	
	11				2	0	4		.0	1.0		1,00	10.80	79.7	45.03	12.07	32.95	
			: .		1			** .				.: .:	8					No and
	. I	1362.4	152.2	335	308.	138	558 25	964		495.9		0.55	5.71	45.1 85.8	54.50	6.09	2.17	
	ii				8	2	. 11		.0	7.8		0.75	14.63		127.72		113.46	4
	111				1	ō	-1.		.0	1.0		1.00	50.00		1362.40	152.20		
						, ,	٠,					12,7						
		FISH/	FISH	, .	ISH/	FFLE	,	PO			WETTED	. GM/-	TTED LB/		FFLE	GM/	LB/	
TION	AGE	SQ. M			Q. M	ACRE		FISH/	FIS		(GM)	SQ. M		50. M	ACRE	SO. M		
. 10-	13/73			-		•:	-		t ·				<del></del>	-				
	0	0.04			0.67	2694		0.05		. 6	12.6	0.04		0.69	6.12	0.05	0.42	
	I	0.02			0.24	989		0.02		.8	25.9	0.09		1.41	12.57	0.10		
	O	0.02			1.27	1319 5134		0.02	198	),4 .	79.7	0.28		2.46	38.66	0.30	0.85	
	ĭ	0.03			0.81	3281		0.03		.7.	70.6	0.24		6.36	56.71	0.25	2, 19	5
	II		:				4.0											
	111	0.00			0.09	364		0.00	. 14		50.0	0.17		4.50	40.18	0.17	1.55	
	O	0.32			9.04	36577 396		0.00	1336	.8	91.6	0.32		8.98	80.14	0.33	0.10	
	ò	0.75			2.25	9108		1.12	4536		113.4	0.59		1.77	15.76	0.88		
	0	0.77			0.00		.0	0.77	3118		74.8	0.65		0.00	0.00	0.65		
:	I				2.						7 .5	*.		7.7	* *	1 10	1 10	1.
I	0	1.22		9	4.54	18390	•	1 67	6720		146.9	0.00	7.28	3.04	27.13	1 . 11	9.94	
•	I	0.02			0.08	335		0.03	6739		16.2	0.82		0.33	2.99	0.12		
	11	0.01			0.02	83		0.01		. 7	10.8	0.06		0.22	1.99	0.08		
	0	0.41			3.67	14837	. 8	0.46	1866	. 1	45.7.7	0.34	3.00	3.01	26.83	0.38	3.37	
	1		74.	3	0.16	664	. 8	0.02	83	1.6	142.8	0.10	0.93	0.94	8.37	0.12	1.05	
	II	0.01			0.07	283		0.01		. 7	156.0	0.11	1.02	1.03	9.14		1.15	
	III	0.00	3.0		0.01	26		0.00	. 3	1 3			0.33	0.33	2.93	0.04	0.37	

SECTION	AGE		(SQ.M) RIFFLE		1 C:		VAR.				MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	
MAY 21-J	UNE I	1/74 2227.1	548.5	347	19	11 45	319.	9 · 9	.4 80.9	0.42	1.56	55.6	49.35	12.16	37.20
SECTION	AGE	FISH,			H/ ·	FISH/ ACRE	POO FISH/ SQ. M	FISH/	WETTED TOTAL WT (GM)	GM/ SQ. M	TTED LB/ ACRE	GM/ SQ. M	LB/	GM/ SQ. M	
MAY 21-J			2 82.	0 0.	08	332.9	0.03	108.8	70.6	0.03	0.28	0.13	1.15	0.04	0.38

		AREA (	cont'd) SQ.M) RIFFLE	LEN		C2 .	OP.	VAR.		PERCENT . LIMIT		MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/ WETTED	FISH (SE	O.M) POOL	
ULY 23-	25/74	515.7	50.2	71	1	1	,	•	-			0.33	34.6		. *	,	
	I				5 2	3	13	112.			0.40	5.68 19.51	81.0	41.26	4.02	37.24	
11	0	304.3	61.7	61	1 3	1 4						31.58 0.44 4.79	148.5 34.6 81.0				J. Frys.
v	11	281.1	62.5	35	0	3						17.27	130.3	,			
,	0	283.5	84.1	44	101	60	249 6	180. 2092. 0.	4 157	3 340.3		3.95 0.34 3.83	81.0 35.0 73.2	31.23 1,14 47.25	6.94 0.34 14.02	0.80 33.23	
/I	0	364.2	78.6	52	83	40	160	396.	0 1. 6 120	0 1.0	0.52	53.75	177.0	283.50	84.10	199.40	
rin	0	449.2	147.2	80	9 41 9	3 29 5	14 140 20	4772. 110.	4 1.	9 278.2	0.29	3.92 0.31 3.21	73.7 34.0 68.8	26.98 3.21 22.18	5.82 1.05 7.27	21.16 2.16 14.91	4
ALL	0	2198.0	484.3	343	233	137	566 68	4438 . 175 .	8 432	3 698.8	0.41	0.32	34.4	3.89	0.86	3.03	
	III				1	4 2						18.39 38.97	128.5 158.0				- 138
			ETTED			FFLE	,	POO		WETTED		TTED		FFLE		00L	88
SECTION	AGE .	SQ. M			ISH/	FISH, ACRE		FISH/	FISH/	TOTAL WT	SQ. M		GM/ SQ. M	LB/ ACRE	SQ. M	ACRE	
JULY 23-	0																
	I II III	0.02			0.25	1007		0.03	108.7	71.0 78.0	0.14		1.55			1.36	
111	0					,		*	**		:						** , .
v	0																
, i., i.,	0 1	0.03	3551. 85.	7	0.14 2.96 0.07	582 11972 288	8 .	0.03	166.6 5049.7 121.8	35.5 84.7 23.0	0.13 0.30 0.08	2.66	0.57 1.01 0.27	8.98	0.42	1.03	****
11	0	0.00	1780.	3	2.04	48 8249	0		20.3	53.8 46.1	0.19	1.13	0.64	5.23	. 0.16	1.44	
111	I 0 I	0.04	1262.	1	0.17 0.95 0.14	695 3851 556	3	0.05 0.46 0.07	191.3 1877.2 271.4	52.9 43.1 65.1	0.15 0.10 0.14	0.86	0.67 0.29 0.44	2.61	0.14	1.27	
	0	0.26			1.17	4725. 568		0.33	1335.5	179.5	0.08		0.37	3.31			
	III	0.00				550	•	, 0.04	.00.7	470.0			0.00		0.10		

12.

				-				-								<del></del>	
SECTION	AGE		SQ.M): RIFFLE	SECT LEN (M)		C2	POP.		VAR.	. CON	PERCENT F. LIMITS VER . UPPER		WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SE	D.M) POOI
AUG. 16	/74											• • •	•				
II	0	380.8	8.9	. 71	2	0	. 2	2	0.0		2.0 2.0	1,00	0.56	40.0	190.40	4:45	185.95
	II				2	1	4	1	12.0	-2	10.9	0.50	15.11	116.3	95.20	. 2.22	92.97
:			VETTED		RI	FFLE			POOL		WETTED	WE	TTED	RII	FFLE	P	00L
SECTION	AGE	SQ. M			FISH/	ACR		FISH SQ.		FISH/ ACRE	TOTAL WT (GM)	SQ. M	ACRE	SQ: M	ACRE	SQ. M	ACRE
AUG. 16,	/74														1.		
11	0	0.01	1 21	. 3	0.22	90	9.4	0.0	1	21.8	1.1	0.00	0.03	0.13	1.13	0.00	0.03
	11	0.0	42	. 5	0.45	181	8.9	0.0	1	43.5	60.4	0.16	1.42	6.79	60.59	0.16	1.45

ppendix	tab1	e II (c	cont'd)	SECT.						05.0	ERCENT		MEAN	MEAN	* * * *		
SECTION		. AREA (		LEN	C1	C2	POP.	. VA	AR.	CONF.	LIMITS	Р	WEIGHT (GM)	LENGTH	AREA/	FISH (S	Q.M)
			KIFFLE	(m)	01	02			•	CONER	OFFER		(im)	( ,,,,,	WETTER	*******	
SEP. 16-										4.0	4.0	4 00	4 =0	53.3	93.82	5.32	. 88.5
II	0 .	375.3	21.3	70	6	2	9		4.5	4.0	13.2	1.00	7.79	85.2	41.70	+ 2.37	39.3
	II	à-			Ö	1			4.5	4.0	13.2	0.07	18.07	125.0	41.70	. 2.37	30.3
111	0	218.3	28.3	63	3	•	5		2.3	1.5	7.5	0.67	1,95	53.3	48.51	6.29	42.2
•••	1 .	. 210.0	20.0	00	7	2	10		2.8	6.4	13.2	0.71	6.50	85.2	22.28	2.89	19.
	II :				2	1	4	•	12.0	-2.9	10.9	0.50	18.07	125.0	54.58	7.07	47.
IV.	0 .	247.6	18.7	34	12	1	- 13		0.1	12.4	13.8	0.92	1.52	53.3	18.91	1.43	17.
	1				3	3							5.33	85.2			
v)	0	191.6	58.9	45	122	36	173		55.7	158.1	188.0	0.70	0.71	41.8	4.11	0.34	0.
	1				. 4	0	. 4		0.0	4.0	4.0	1.00	5.54	82.7	47.90	14.73	33.
VI	0	215.9	13.3	56	58	17	82		25.8	71.9	92.2	0.71	0.69	41.8	2.63	0.16	2.
4.5	1				9	0	9		0.0	9.0	9.0	1.00	4.84	78.3	23.99	1.48	. 22.
	III	·			1	. 0	1		0.0	1.0	1.0	1.00	30.50		215.90	13.30	202.
IIIV		. 172.7	82.4	55	61	24	101	\$	97.2	80.8	120.3	0.61	0.98		1.72	0.82	0.
1 . T	1				7	2	10		2.8	6.4	13.2	0.71	4.55		17.62	8.41	9.
	11	1			1	1				*.			19.16	126.5			
LL	0	1421.4	222.9	323	260	79	373	13	22.2	350.4	396.6	0.70	0.83	43.6	3.81	0.60	3.
	ī			020	36	9	48		8.9	42.0	54.0	0.75	5.77	82.0	29.61	4.64	24.
	II				3	3.	40		0.0	42.0	34.0	0.10	18.43	125.5		4.04	
	III				1	0	1		0.0	1.0	1.0	1.00	30.50		1421.40	222.90	1198.
	7 7			,	•					-			àt A		4		
			ETTED		RI	FFLE		· F	DOOL		WETTED	WE'	TTED	RI	FFLE	P	00L
•		FISH/			ISH/	FISH		FISH/			OTAL WT	GM/	LB/	GM/.	LB/	GM/	LB
SECTION	AGE	SQ. M	ACRE	S	Q. M	ACRE		SQ. M	AC	RE	(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	AC
SEP. 16-	19/74	•			-											٠.	
II	.0	0.01	43.		0.19		0.0	0.01		5.7	6.1	0.02	0.14	0.28			
	I	0.02	97.	1	0.42	1710	0.0	0.03	10	2.9	70.1	0.19	1.67	3.29		0.20	1.
111	0	0.00													2.77	0:05	
	ī	0.02			0.16	643		0.02		5.8	8.8	0.04	0.36	0.31		0.05	
*	II	0.04			0.35	140	2.0	0.05		8.7	63.7	0.29	2.60	2.25			
v	0	0.02			0.70			0.02		5.2	72.3	0.33	2.95				
. •	1	0.05	214.	0	0.70	283	3.1	0.06	23	1.5	20.0	0.08	0.72	1.07	9.52	0.08	0.
7.	ō	0.90	3655.	6	2.94	1189	1.6	1.30	527	8.2	122.8	0.64	5.72	2.09	18.60	0.93	8.
	1	0.02			0.07		8.1	0.03		2.0	22.2	0.12	1.03	0.38			
/I	0	0.38	1538.		6.17	24966		0.40	163		56.8	0.26	2.35	4.27			
	I	0.04	168.	-	0.68	2738		0.04		9.8	43.5	0.20	1.80	3.27			1.
	III	0.00	18.	7	0.08	304	1.3	0.00		0.0	30.5	0.14	1.26	2.29	20.46	0.15	1.
III	0	0.58	2356.		1.22	4939		1.11	450		98.1	0.57	5.07	1.19		1.09	9.
	1	0.06	229.	7	0.12	48		0.11		9.2	44.6	0.26	2.31	0.54			
	11																
LL	0	0.26	1063.		1.68	670		0.24	100		200 2	0.00	1 04	4 20	10 07	0.00	-
	ī	0.03	136.		0.22	6781 871		0.31	126		309.2	0.22	1.94	1.39		0.26	
	II	0.03	136.		0.22	6/1	. 5	0.04	16	2.1	276.8	0.19	1.74	1.24	11.08	0.23	2.
	III	0.00	2.	0	0.00	4.0	3.2	0.00		3.4	30.5	0.02	0.19	0.14	1.22	0.03	0.

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APPENDIX		CARNATIO	ON CREEK	RAINB	ow							.;				1.1	
SECTION	AGE		(SQ.M) RIFFLE	SECT. LEN (M)		C2	POP.		/AR.		PERCENT F. LIMITS ER UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	
MAY 20-2:	2/75								,			;			. :		
	1	2241.4	746.7	335	12	4	. 18		9.0	12	.0 24.0	0.67	1.55	53.7	124.52	41.48	83.04
			WETTED		R	IFFLE			POOL		WETTED	WE	TTED	RII	FFLE	PO	OL.
SECTION	AGE	FISH,			ISH/ Q. M	FIS		FISH/		FISH/ ACRE	TOTAL WT	GM/ SQ.,M	ACRE	SQ. M	LB/ ACRE	SQ. M	ACRE
MAY 20-2	2/75							!						1.		1.	
ALL	I	0.0	1 32.	.5	0.02	9	7.6	0.01	1	48.7	. 27.9 .	0.01	0.11	0.04	0.33	0.02	. 0. 17

	k tab		(cont'd)			2.					PERCEN			MEAN	MEAN			
SECTION	AGE	WETTED		LEN (M)		C2	POP.	'	N.	LOW	R UP		P	WEIGHT (GM)	LENGTH (MM)		FISH (S	PO01
JULY 21-	24/75	. '				• .						*						
11	0	371.9	39.5	78	3	2	9	1	80.0	-17	8 35	. 8	0.33	0.57	39.7	41.32	4.39	36.93
	1.				0	2 .						-		8.29	93.0			
III	11	253.4	17.1	57	. 28	5	. 34	•	12.0	31		. 1	0.50	15.87	112.6	92.97	9.88	6.9
IV	0	217.8	32.3	46	122	25	153		15.4	145			0.80	0.48	39.7	1.42	0.30	1.2
••	I		02.0	40	5	3	13	1	12.5	-8		. 7	0.40	5.12	. 78.1	17.42	7	. 14.8
4.	11				1	0	1		0.0			.0	1.00	13.89	-111.0	217.80		185.50
V	0	259.8	42.0	50	126	32	169		32.9	157	4 180	. 4	0.75	0.48	38.4	1.54	0.25	1.2
	1				2.	. 0	2		0.0	. 2.			1.00	8.93	95.5	129.90	21.00	108.90
	11				1	0	. 1		0.0	. 1.		.0	1.00	10.84	102.0	259.80	42.00	217.80
VI	0	250.2	19.3	52	84	31	1133		8.8	113.			0.63	0.35	34.4	1.88	0.14	1.73
	ir				3	. 0	3		0.0	. 11.		0.	1.00	9.95	73.7 99.0	22.75 83.40	6.43	76.9
VIII	0	177.9	87.6	51	105	43	178		04.2	149			0.59	0.36	34.4	1.00	0.49	0.5
	I	,	00		3	5	.,,			140			0.50	3.27	67.5		0.45	
	II .				0	1								12.13	106.0	14.		
ALL	0	1531.0	237.8	334		138	664		13.1	634			0.71	0.43	37.1	2.31	0.36	1.9
	1				21	10	40		93.4	20.			0.52	4.78	75.9	38:19	5.93	32.20
	11				7	2	10		2.8	6.	4. 13	. 2	0.71	12.70	106.0	156 22	. 24 . 27	131.96
			1 .	•			10			6.						* * *	. 1 %	
			ETTED	· /	RI	FFLE			POOL		WETTE	D	WE	TTED	RI	FFLE	Pi	00L
SECTION		FISH/ SO M	FISH					FISH/	POOL F	ISH/	WETTE	D ·				FFLE LB/	Pi	OOL LB/
	AGE	FISH/	FISH		R)	FFLE FISH/		FISH/	POOL F	ISH/	WETTE	D ·	WE GM/	TTED LB/	RI GM/	FFLE LB/	GM/	OOL LB/
JULY 21-	AGE 24/75	FISH/	FISH, ACRE		R) FISH/ SQ. M	FFLE FISH/ ACRE		FISH/ SQ. M	POOL F I A	ISH/ CRE	WETTE TOTAL (GM)	D WT	WE GM/ SQ. M	TTED LB/ ACRE	GM/ SQ. M	FFLE LB/ ACRE	GM/ SQ. M	DOL LB/ ACRE
	AGE 24/75	FISH/	FISH, ACRE		R)	FFLE FISH/		FISH/	POOL F I A	ISH/	WETTE	D WT	WE GM/	TTED LB/	RI GM/	FFLE LB/	GM/ SQ. M	DOL LB/ ACRE
JULY 21-	AGE 24/75	FISH/	FISH, ACRE	9	R) FISH/ SQ. M	FFLE FISH/ ACRE	1	FISH/ SQ. M	POOL F I A	ISH/ CRE	WETTE TOTAL (GM)	D WT	WE GM/ SQ. M	LB/ ACRE	RI GM/ SQ. M	FFLE LB/ ACRE	GM/ SQ. M	LB/ ACRE
JULY 21-	AGE 24/75 0 I III 0	FISH/ SO: M	FISH, ACRE	9	RI FISH/ SQ. M	FFLE FISH/ ACRE	1 8	FISH/ SQ. M	POOL F I A	ISH/ CRE	WETTE TOTAL (GM)	D WT 2	WE GM/ SQ. M	TTED LB/ ACRE	GM/ SQ. M	FFLE LB/ ACRE	GM/ SQ. M	OOL LB/ ACRI
JULY 21-	AGE 24/75 0 I II 0 0	0.02 0.01 0.13	97.1 43.1 544.2	9 5 4 2	R1 FISH/ SQ. M 0.23 0.10 1.99 4.75	922 409 8067	1 8 2 5	FISH/ SQ. M	POOL F A	ISH/ CRE 09.6 48.7 83.8 47.6	WETTE TOTAL (GM) 5.	D wT 2	WE GM/ SQ. M 0.01 0.17 0.08 0.33	UTED LB/ACRE 0.12 1.52 0.74 2.99	RI GM/ SQ. M O. 13 1.61 1.23 2.26	1.17 14.33 10.94 20.13	GM/ SQ. M 0.02 0.19 0.09 0.39	0. 14 0. 14 1.70 0.75 3.5
JULY 21-	AGE 24/75 0 I II 0 0 I	0.02 0.01 0.13 0.70	97: 43: 544: 2851: 232:	9 5 4 2 3	RISH/ SQ. M 0.23 0.10 1.99 4.75 0.39	922 409 8067 19225	1 8 2 5 2	FISH/ SQ. N 0.03 0.01 0.14 0.83	POOL F A	ISH/ CRE 09.6 48.7 83.8 47.6 72.7	WETTE TOTAL (GM) 5. 63. 21. 72. 64.	D WT 2 5 0 9	WE GM/ SQ. M 0.01 0.17 0.08 0.33 0.29	US 1.52 0.12 1.52 0.74 2.99 2.62	O. 13 1.61 1.23 2.26 1.98	1.17 14.33 10.94 20.13	O.02 O.18 O.09 O.39	0.14 1.70 0.78 3.5
JULY 21-	AGE 24/75 0 I II 0 0 I III	0.02 0.01 0.13 0.70 0.06	97.1 43.1 544 2851 232 18	9 5 4 2 3 6	RISH/ SQ. M 0.23 0.10 1.99 4.75 0.39	922 409 8067 19225 1566 125	1 8 2 5 2 3	FISH/ SQ. N 0.03 0.01 0.14 0.83 0.07	P00L F I A	ISH/ CRE 09.6 48.7 83.8 47.6 72.7 21.8	WETTE TOTAL (GM) 5. 63. 21. 72. 64.	D WT 2 5 0 9	WE GM/ SQ. M 0.01 0.17 0.08 0.08 0.29 0.06	UTED LB/ ACRE 0.12 1.52 0.74 2.99 2.62 0.57	RII GM/ SQ. M O. 13 1.61 1.23 2.26 1.98 0.43	1.17 14.33 10.94 20.13 17.68	0.02 0.19 0.09 0.35 0.35	0.14 1.70 0.79 3.50 0.67
JULY 21-	AGE 24/75 0 1 11 0 1 11 0	0.02 0.01 0.13 0.70 0.06	97 43 544 2851 232 18 2630 5	9 5 4 2 3 6 9	RI FISH/ SO. M 0.23 0.10 1.99 4.75 0.39 0.03 4.02	922 409 8067 19225 1566 125	1 8 2 5 2 3 1	0.03 0.01 0.14 0.83 0.07 0.01	POOL F A A 1 5 3 3 3 2 2 3 1	ISH/ CRE 09.6 48.7 83.8 47.6 47.7 21.8 38.3	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81.	D WT 2 5 0 9 0 9	WE GM/ SQ. M 0.01 0.17 0.08 0.33 0.29 0.06 0.31	UB/ ACRE 0.12 1.52 0.74 2.99 2.62 0.57 2.79	RII GM/ SQ. M O. 13 1.61 1.23 2.26 1.98 0.43	1.17 14.33 10.94 20.13 17.68 3.84	0.02 0.19 0.09 0.39 0.35 0.35	0.14 1.70 0.78 3.5 3.00 0.67
JULY 21-	AGE 24/75 0 1 11 0 1 11 0 1	0.02 0.01 0.13 0.70 0.06 0.00	97.1 43.1 544.2 2851.232.1 18.1 2630.1 31.1	9 5 4 2 3 6 9 2	RI FISH/ SO. M 0.23 0.10 1.99 4.75 0.39 0.03 4.02 0.05	922 409 8067 19225 1566 125 16274	1 8 2 5 2 3 1 7	0.03 0.01 0.14 0.83 0.07 0.01	POOL F A A 1 5 3 3 3 2 3 1	ISH/ CRE 09.6 48.7 83.8 47.6 72.7 21.8 38.3 37.2	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81.	D WT 2 5 0 9 0 9 3 9 9	WE GM/ SQ. M 0.01 0.17 0.08 0.33 0.29 0.06 0.31	1,52 0.12 1.52 0.74 2.99 2.62 0.57 2.79 0.61	RII GM/ SQ. M 0.13 1.61 1.23 2.26 1.98 0.43 1.94 0.43	1.17 14.33 10.94 20.13 17.68 3.84 17.27	0.02 0.19 0.09 0.39 0.35 0.07 0.37	0.14 1.76 0.78 3.56 3.00 0.67 3.33
JULY 21-	AGE 24/75 0 1 11 0 1 11 0	0.02 0.01 0.13 0.70 0.06 0.00	97.5 43.5 544.0 2851.1 232.3 18.6 2630.1 31.1	9 5 4 2 3 6 9 2 6	RISH/ SQ. M 0.23 0.10 1.99 4.75 0.39 0.03 4.02 0.05 0.02	922 409 8067 19225 1566 125 16274	1 8 2 5 2 3 1 7 4	0.03 0.01 0.14 0.83 0.07 0.01 0.78 0.01	POOL F A A 1 1 5 33 2 31	ISH/ CRE 09.6 48.7 83.8 47.6 72.7 21.8 38.3 37.2 18.6	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81.	D WT 2 5 0 9 0 9 3 9 8	WE GM/ SQ. M 0.01 0.17 0.08 0.33 0.29 0.06 0.31 0.07	US 1.52 0.12 1.52 0.74 2.99 2.62 0.57 2.79 0.61	RII GM/ SQ. M O. 13 1.61 1.23 2.26 1.98 0.43 1.94 0.43 0.43	1.17 14.33 10.94 20.13 17.68 3.84 17.27 3.79 2.30	0.02 0.19 0.09 0.35 0.37 0.07	0.14 1.76 0.79 3.5 3.00 0.67 3.33 0.74
JULY 21-	AGE  24/75  O  I  II  O  O  I  III  O  I  III  O  I  I	0.02 0.01 0.13 0.70 0.06 0.00	97.8 43.9 544.0 2851.1 232.1 18.0 2630.1 31.1 2630.1 31.1 2630.1	9 5 4 2 3 6 9 2 6 4	RI FISH/ SO. M 0.23 0.10 1.99 4.75 0.39 0.03 4.02 0.05	922 409 8067 19225 1566 125 16274	1 8 2 5 2 3 1 7 4 3	0.03 0.01 0.14 0.83 0.07 0.01	POOL F A A 1 1 5 33 2 31 31	ISH/ CRE 09.6 48.7 83.8 47.6 72.7 21.8 38.3 37.2	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81.	D WT 2 5 0 9 0 9 3 9 8 8 4	WE GM/ SQ. M 0.01 0.17 0.08 0.33 0.29 0.06 0.31	1,52 0.12 1.52 0.74 2.99 2.62 0.57 2.79 0.61	RII GM/ SQ. M 0.13 1.61 1.23 2.26 1.98 0.43 1.94 0.43	1.17 14.33 10.94 20.13 17.68 3.84 17.27	0.02 0.18 0.09 0.35 0.07 0.37 0.07	0.1/1 1.77 0.75 3.5 3.0 0.75 0.75 0.75
JULY 21-	AGE 24/75 0 1 11 0 0 1 11 0 1 11 0 1 11	0.02 0.01 0.13 0.70 0.06 0.00 0.65 0.01 0.03	97.1 43.1 544 2851 232 18.1 2630 2153 177 48.1	9 5 4 2 2 3 3 6 6 9 9 2 4 9 9 5	R) FISH/ SQ. M 0.23 0.10 1.99 4.75 0.39 0.03 4.02 0.05 0.05 0.05	922 409 8067 19225 1566 125 16274 192 96 27916	1 8 2 5 2 3 1 7 7 4 3 6	FISH/SQ. N 0.03 0.01 0.14 0.87 0.01 0.78 0.01	POOL F A A 1 5 33 2 2 31 2 23 1	ISH/ CRE 09.6 48.7 83.8 47.7 21.8 38.3 37.2 18.6 33.4	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81. 17.	D WT 2 5 0 9 9 9 9 9 8 8 4 4 5 5	WE GM/ SQ. M 0.01 0.17 0.08 0.33 0.29 0.06 0.31 0.07 0.04	1.52 0.12 1.52 0.74 2.99 2.62 0.57 2.79 0.61 0.37	RII GM/ SQ M O. 13 1.61 1.23 2.26 1.98 0.43 0.43 0.26 2.41	1.17 14.33 10.94 20.13 17.68 3.84 17.27 3.79 2.30 21.46	0.02 0.19 0.09 0.35 0.35 0.07 0.07 0.08	00L LB/ ACRE 0.14 1.70 0.78 3.56 0.67 3.30 0.73 0.44 1.78 1.18
JULY 21-	AGE 24/75 0 1 11 0 0 1 11 0 1 11 0 1 11 0 1	0.02 0.01 0.13 0.70 0.06 0.00 0.05 0.01	97.1 43.1 544 2851 2851 2630 31 15 2153 177 48	9 5 4 2 2 3 3 6 6 9 9 2 4 9 9 5	R) FISH/ SO. M O.23 O.10 1.99 4.75 O.03 4.02 O.05 O.05 O.02 6.90 O.57	922 409 8067 1925 1566 125 16274 192 96 27916	1 8 2 5 2 3 1 7 7 4 3 6 1	FISH/SQ. N 0.03 0.01 0.14 0.83 0.01 0.78 0.01 0.05 0.05	POOL F A A A A A A A A A A A A A A A A A A	ISH/ CRE 09.6 48.7 83.8 47.6 72.7 21.8 38.3 37.2 18.6 92.8	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81. 17. 10. 46.	D WT 2 50090093998844558	WE GM/ SQ - M 0.01 0.17 0.08 0.33 0.29 0.06 0.31 0.07 0.04 0.19	1.52 0.12 1.52 0.74 2.99 2.62 0.57 2.79 0.61 0.37 1.66	RII GM/ SQ. M 0.13 1.61 1.23 2.26 1.98 0.43 0.26 2.41 2.41	1.17 14.33 10.94 20.13 17.68 3.84 17.27 3.79 2.30 21.46 21.49	0.02 0.19 0.09 0.35 0.37 0.07 0.37 0.08	00L LB/ ACRE 0.14 1.70 0.78 3.56 0.67 3.30 0.73 0.44 1.78 1.18
JULY 21-	AGE 24/75 0 1 11 0 0 1 11 0 1 11 0 1 11	0.02 0.01 0.13 0.70 0.06 0.00 0.65 0.01 0.03	97.1 43.1 544 2851 232 18.1 2630 2153 177 48.1	9 5 4 2 2 3 3 6 6 9 9 2 4 9 9 5	RISH/ SO. M 0.23 0.10 1.99 4.75 0.39 0.03 4.02 0.05 0.02 6.90 0.57 0.16	922 409 8067 1925 1566 125 16274 192 96 27916 2306 629	1 8 2 5 2 3 1 7 7 4 3 6 1	FISH/SQ. N 0.03 0.01 0.14 0.83 0.07 0.01 0.06 0.05 0.05	POOL F A A A A A A A A A A A A A A A A A A	ISH/CRE  09.6  48.7 83.8 47.6 72.7 21.8 33.3 37.2 18.6 33.4 92.8 52.6	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81. 17. 10. 46. 46.	D WT 2 50090093998844558	WE GM/ SQ - M 0.01 0.17 0.08 0.33 0.29 0.06 0.31 0.07 0.04 0.19 0.12	1.52 0.12 1.52 0.74 2.99 2.62 0.57 2.79 0.61 0.37 1.66 1.66	RII GM/ SQ. M 0.13 1.61 1.23 2.26 1.98 0.43 0.43 0.26 2.41 1.55	1.17 14.33 10.94 20.13 17.68 3.84 17.27 2.30 21.46 21.49	0.02 0.19 0.09 0.35 0.37 0.07 0.37 0.08	00L LB/ ACRE 0.14 1.70 0.79 3.51 3.08 0.67 3.30 0.73 0.44 1.78 1.88
JULY 21-: III IV V VI VIII	AGE  24/75  0  1  1  0  1  1  1  1  1  1  1  1  1	0.02 0.01 0.13 0.70 0.06 0.00 0.65 0.01 0.03	97.1 43.1 544 2851 2851 232 18.6 2630 31 15.1 2153 177 48.1 4045	9 5 4 2 2 3 3 6 9 9 2 2 6 6 4 9 9 5 5 2 2	RISH/ SQ. M 0.23 0.10 1.99 4.75 0.39 0.03 4.02 0.05 0.02 6.90 0.57 0.16 2.03	922 409 8067 19225 1666 125 16274 192 96 27916 2306 629 8215	1 8 2 5 2 3 1 7 7 4 3 6 1 2	FISH/SQ. N 0.03 0.01 0.14 0.83 0.07 0.01 0.08 0.05 0.05	POOL F A A A A A A A A A A A A A A A A A A	ISH/ CRE 09.6 48.7 83.8 47.6 72.7 21.8 33.3 37.2 18.6 33.4 92.8 52.6 69.5	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81. 17. 10. 46. 46. 29. 63.	D WT 2 5 0 9 9 9 9 9 8 4 4 5 8 8 5 5	WE GM/ 50 - M 0.01 0.17 0.08 0.33 0.29 0.06 0.31 0.07 7.004 0.19 0.19 0.19 0.36	1.52 0.12 1.52 0.74 2.99 2.62 0.57 2.79 0.61 0.37 1.66 1.66 1.06 3.18	RII GM/ SQ. M O. 13 1.61 1.23 2.26 1.98 0.43 1.94 0.43 0.26 2.41 2.41 1.55 0.72	1.17 14.33 10.94 20.13 17.68 3.84 17.27 3.79 2.30 21.46 21.49 13.79 6.46	0.02 0.19 0.09 0.39 0.35 0.07 0.37 0.08 0.05 0.20 0.20	00L LB/ ACRE 0.14 1.70 0.78 3.51 3.08 0.67 3.33 0.73 1.78 1.80 1.15 6.27
JULY 21-	AGE 24/75 0 1 11 0 0 1 11 0 1 11 0 1	0.02 0.01 0.13 0.70 0.06 0.00 0.65 0.01 0.03	97.5 43.5 544.2 2851.5 1232.3 18.6 2630.5 31.5 15.6 2153.6 177.4 48.5 4045.5	9 5 4 2 2 3 3 6 6 9 9 5 5 2 2 6 4 4 9 9 5 5 2 2 4 4	RISH/ SO. M 0.23 0.10 1.99 4.75 0.39 0.03 4.02 0.05 0.02 6.90 0.57 0.16	922 409 8067 1925 1566 125 16274 192 96 27916 2306 629	1 8 2 5 2 3 1 7 7 4 3 6 1 2 3	FISH/SQ. N 0.03 0.01 0.14 0.83 0.07 0.01 0.06 0.05 0.05	POOL F A A S 333 2 2 3 1 7 9 20	ISH/CRE  09.6  48.7 83.8 47.6 72.7 21.8 33.3 37.2 18.6 33.4 92.8 52.6	WETTE TOTAL (GM) 5. 63. 21. 72. 64. 13. 81. 17. 10. 46. 46.	D WT 2 5 0 9 9 0 9 9 3 9 9 8 4 4 5 8 5 5 9 9	WE GM/ SQ - M 0.01 0.17 0.08 0.33 0.29 0.06 0.31 0.07 0.04 0.19 0.12	1.52 0.12 1.52 0.74 2.99 2.62 0.57 2.79 0.61 0.37 1.66 1.66	RII GM/ SQ. M 0.13 1.61 1.23 2.26 1.98 0.43 0.43 0.26 2.41 1.55	1.17 14.33 10.94 20.13 17.68 3.84 17.27 2.30 21.46 21.49	0.02 0.19 0.09 0.35 0.35 0.07 0.37 0.08 0.05 0.20 0.20	OOL LB/

	à.11.	** /								-								
•		AREA (S	Q.M)	SECT. LEN (M)	C1	C2	POP.	VAR.	CON	F PER	CENT LIMITS UPPER	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (S	O.M) POOL	
								. ~						•				
SEP. 16- II	0	394.1	27.4	73	1,7	2	19	•			00.0		4 67					
••	ĭ	334.1	27.4	13	2	1	4			7.9		0.88	1.67 7.91	51.4 91.3	98.53	6.85	91.68	. 1 . 1
	II				õ	2	*	12.	0 -4	4.9	10.8	0.50	13.89	112.0	30.53	6.65	91.68	* .
III	0	246.2	11.9	55	21	6	29	8.	5 23	3.6	35.2	0.71	1.04	51.4	8.37	0.40	7.97	
	I				2	ŏ	2			2.0	2.0	1.00	11.04	103.5	123.10	5.95	117.15	,
	11				1	0	1	0.		1.0	1.0	1.00	14.59	114.0	246.20	11.90	234.30	
IV	0	292.0	59.3	45	33	10	47			1.2	55.5	0.70	1.36	51.4	6.17	1.25	4.91	.** **
	1			-	2	0	2	o.		2.0	2.0	1.00	7.52	90.5	146.00	29.65	116.35	1
V	0	259.0	49.7	50	66	10	78	3.		1.1	81.5	0.85	1.17	49.5	3.33	0.64	2.69	
	I				2	0	2	0.		2.0	2.0	1.00	4.68	78.0	129.50	24.85	104.65	. '
	11				. 4	0	1	0.			1.0	1.00	13.71	111.0	259.00	49.70	209.30	
VI	0	265.0	21.8	52	51	16	74	29.		1.4	85.2	0.69	0.85	44.5	3.57	0.29	3.27	. 1
	I				13	1	14	0.		3.4	14.8	0.92	5.34	80.6	18.82	1.55	17.27	*
	11				1	2			, .				13.54	110.3				
VIII	0	183.4	83.0	52	50	10	63	5.	9 57	.7	67.3	0.80	0.86	44.4	2.93	1.33	1.61	
	I				10	5	20	60.		. 5	35.5	0.50	5.60	81.9	9.17	4.15	5.02	- N
ALL	0	1639.7	253.1	327	238	54	308	42.			320.8	0.77	1.08	47.9	5.33	0.82	4.50	
	I				31	7	40	5.	4 35	. 4	44.7	0.77	6.03	83.5	40.95	6.32	34.63	
	**				3	4			- 1				13.81	111.4		*		
		. WE	TTED		DI	FFLE		000	L	WES	TED	· · WE	TTED		FFLE		201	
		FISH/	FISH	/ F1	SH/	FISH	1	FISH/	FISH/		L WT	GM/	LB/	KII	IP/		DOL	
SECTION	AGE	SQ. M	ACRE		). M	ACRE	,	SO. M	ACRE .		M)	SQ. M		GM/ SQ. M	LB/	GM/ SQ. M	LB/ ACRE	
		*				,				,,,					HONE	34. M	HORE	,
EP. 16-	18/75	* .	:							1.					1			
I	0	0.05	197.8	3 0	.70	2845	. 7	0.05	212.6	. 3	2.2	0.08	0.73	1.17	10.47	0.09	0.78	
	1.	0.01	41.1		. 15	590		0.01	44.1		1.6	0.0B		1.16	10.30		0.77	
	II												0.72			5.05		
III	0	0.12	483.3	2	2.47	9998	. 5	0.13	507.8	3	0.4	0.12	1.10	2.56	22.82	0.13	1.16	
	I	0.01	32.9		. 17	680		0.01	34.5		2.1	0.09	0.80	1.86	16.55		0.84	*
	II	0.00	16.4		.08	340		0.00	17.3		4.6	0.06	0.53	1.23	10.94		0.56	
I V	0	0.16	656.2	2 0	08.0	3231		0.20	823.4		4.6	0.22	1.97	1.09	9.71	0.28	2.48	
	1.	0.01	27.7	7 0	.03	136	. 5	0.01	34.8		5.0	0.05	0.46	0.25	2.26	0.06	0.58	
/	0	0.30	1215.4		. 57	6334	.0		1504.1		1.2	0.35	3.14	1.84	16.37	0.44	3.89	
	I	0.01	31.3		:04	162		0.01	38.7		9.4	0.04	0.32	0.19	1.68	0.04	0.40	
	11	0.00	15.6		.02	81		0.00	19.3		3.7	0.05	0.47	0.28	2:46		0.58	
/I	0	0.28	1134.9	3	1.41	13795			1236.6		2.9	0.24	2.12	2.89	25.75	0.26	2.31	* .
	I	0.05	215.1		. 65	2614		0.06	234.4		5.3	0.28	2.53	3.45	30.79	0.31	2.76	16
	II											0.20	2.00	0.40	90.10	0.01	2.10	
III	0	0.34	1379.2	2 0	.75	3047	4	0.62	2519.3	5	3.5	0.29	2.60	0.65	5.75	0.53	4.76	
	I	0.11	441.3		.24	975		0.20	806.2		1.9	0.61	5.44	1.35	12.03	1.11	9.95	
LL.	0	0.19	759.8	1	.22	4922	4	0.22	898.5	33	2.7	0.20	1.81	1.31	11.73	0.24	2.14	Υ.
	1	0.02	98.8		. 16	640		0.03	116.9		1.3	0.15	1.31	0.95	8.50	0.17	1.55	+
	11									•		00		0.00	0.30	0.11	1.99	

		* :							
SECTION AG	AREA (S	SE (Q.M) L RIFFLE (	CT. EN M) C1	C2 N	VAR.	95 PERCENT CONF. LIMIT LOWER UPPE	S WEIGHT		A/FISH (SQ.M) D RIFFLE POOR
MAY 18-20/76	2140.3	530.9 3	26 53	15 74	20.6	64.8 83.0	0.72 2.04	59.2 28.9	5 7.18 21.77
SECTION AG	. FISH/	FISH/ ACRE	FISH/ SQ. M	FFLE FISH/ ACRE		WETTED ISH/ TOTAL WT CRE (GM)		GM/ LB/	GM/ LB/
MAY 18-20/76	0.03	139.8	0.14	563.5	0.05	95.9 150.5	0.07 0.63	0.28 2.	53 0.09 0.83

ppendi	x tao	le II (			**	3.1	4				PERCENT		MEAN	MEAN	. 4.		24
FCTION	AGE	WETTED	SQ.M)	LEN-		C2	POP.		VAR.				WEIGHT (GM)	LENGTH (MM)		FISH (S	POOL
COTTON	, 400	HETTEO	MITTEL	(/	•			*1 *		28.	- 011-		( /	(1-1-1)		1 14.4	133
ULY 13-	15/76			.,													
1	0	405.6	41.1	73	239	68	334		94.8	314	.6 353.5	0.72	0.22	33:6	1.21	0.12	1.09
	I	• :	:		6	1	7		0.4	5	.9 8.5	0.83	4.82	78.6	56.33	5.71	50.63
	II	••"	: •		2	0.	2		0.0	. 2	.0 2.0	1.00	12.85	112.0	202.80	20.55	182.25
11	0 .	359.3	89.4	55	114	32	158		43.0	145	.4 171.6	0.72	0.40	37.8	2.27	0.56	1.70
	I	,			3	1	5		2.3		.5 7.5	0.67	6.65	82.7	79.84	19.87	59.98
	II		.*.		3	0	3		0.0	3	.0 . 3.0	1.00	10.82	101.0	119.77	29.80	89.97
	III			4	0	1							20,77	135.0	1	1	
V	0	265.6	. 87.0	36	25	6	33		5.4	28		0.76	0.24	34.0	8.07	2.64	5.43
	1	**	•		7	5	25		918.8	-36		0.29	4.60	77.0	10,84	3.55	7.29
1	.0	272.7	58.9	47	132	67	268		872.0	209		0.49	0.20	33.1	1.02	0.22	0.80
	I		1-	-	4	2	8		24.0	-1		0.50	4.05	73.8	34.09	7.36	26:.73
'I	I	412.3	60.5	55	14	2	16		0:6	14	.8 17.9	0.86	4.83	82.8	25.24	3.70	21.54
	II	240 5		ė.	. 0	1							12.52	112.0		40.45	i
III	I	312.8	156.1	60	5	3	13		112.5	-8		0.40	3.88	72.5	25.02	12:49	12.54
	11				1	O	1		0.0	. 1	.0 1.0	1.00	7.13	91.0	312.80	156.10	156.70
LL	0	2028.3	493.0	200	510	173	772		412.2	731	2 010 4	0.00	0.25	34.4	2.63	0.64	1.99
	ĭ	2020.3	, 493.0	320	39	14	61		40.4			0.66	4.68	78.4	33.34	8.10	25.24
	ii				6	. 4			0.4			0.83	11.12	104.3	281.71		213.24
												0.03	11.14	104.3	401,11	. 00,4/	410.4
	III	•			ő	1	,		0.4	-			20.77	135.0			
									0.4				20.77	135.0			
					.0	1					***		, · · · ·	** *.			
• .			ETTED	, -	O RI	FFLE			POOL		WETTED	WE	TTED	RI	FFLE	P	DOL
	iii	FISH/	FISH		O RI ISH/	FFLE FISH	/	FISH	POOL	ISH/	WETTED TOTAL WT	WE GM/	TTED LB/	RII GM/	LB/	GM/	LB/
	iii				O RI	FFLE	/		POOL		WETTED	WE	TTED LB/	RI	LB/	P	LB/
ECTION	AGE	FISH/	FISH		O RI ISH/	FFLE FISH	/	FISH	POOL	ISH/	WETTED TOTAL WT	WE GM/	TTED LB/	RII GM/	LB/	GM/	LB/
ECTION	AGE 15/76	FISH/ SQ. M	FISH, ACRE	S	RI ISH/ Q. M	FFLE FISH ACRE	/	FISH SQ.	POOL	FISH/ ACRE	WETTED TOTAL WT (GM)	WE GM/ SQ. M	TTED LB/ ACRE	RI GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRI
ECTION	AGE 15/7G O	FISH/ SQ. M	FISH, ACRE	5	0 RI ISH/ Q. M	FFLE FISH ACRE	/	FISH SQ.	POOL	FISH/ACRE	WETTED TOTAL WT (GM)	GM/ SQ. M	TTED LB/ ACRE	RII GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRI
ECTION	AGE 15/7G O	FISH/ SQ. M 0.82 0.02	9333.0 71.8	S 0 8	RI ISH/ Q. M 8.13	FFLE FISH ACRE	.1	FISH SQ.	POOL / 1	FISH/ ACRE 708.8 79.9	WETTED TOTAL WT (GM)	WE GM/ SQ. M	TTED LB/ ACRE	RI GM/ SQ. M	LB/ ACRE 15.75 7.53	GM/ SQ. M	1.70 0.81
ULY 13-	AGE 15/7G O	FISH/ SQ. M 0.82 0.02 0.00	3333.0 71.0 20.0	S	RI ISH/ Q. M 8.13 0.18 0.05	1 FFLE FISH ACRE 32892 709	.1 .0 .9	FISH SQ.	POOL / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	FISH/ ACRE 708.8 79.9 22.2	WETTED TOTAL WT (GM) - 72.6 34.7 25.7	GM/ SQ: M	1.60 0.76 0.57	RII GM/ SQ. M	LB/ ACRE 15.75 7.59 5.58	GM/ SQ. M 0.20 0.10 0.07	1.70 0.81
ECTION	AGE 15/76 0 I	FISH/ SQ. M 0.82 0.02 0.00 0.44	3333.0 71.0 20.0	S	RI ISH/ Q. M 8.13 0.18 0.05 1.77	1 FFLE FISH ACRE 32892 709 196 7174	.1 .0 .9 .5	0.9 0.0 0.0	POOL / 1 M / 1 2 3 1 2 2 1 9 2 3 1	708.8 79.9 22.2	WETTED TOTAL WT (GM) 72.6 34.7 25.7 63.3	O. 18 O. 09 O. 06 O. 18	1.60 0.76 0.57	RII GM/ SQ. M 1.77 0.84 0.63 0.71	LB/ ACRE 15.75 7.59 5.58 6.32	GM/ SQ. M 0.20 0.10 0.07 0.23	1.70 0.81 0.63 2.01
ULY 13-	111 AGE 15/76 O I II	FISH/ SQ. M 0.82 0.02 0.00	3333.0 71.0 20.0	S 0 8 0 1	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.05	32892 709 196 7174 203	.1 .0 .9 .5 .7	0.9 0.0 0.0	POOL / 1 / 1 / 2 / 2 / 2 / 1 / 9 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	708.8 79.9 22.2 376.4 67.5	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9	O. 18 O. 09 O. 06 O. 18 O. 08	1.60 0.76 0.57 1.57	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33	LB/ ACRE 15.75 7.53 5.58 6.32 2.99	GM/ SQ. M O.20 O.10 O.07 O.23 O.11	1.70 0.81 0.61 2.01 0.91
ULY 13-	111 AGE 15/7G O I II O I	0.82 0.02 0.00 0.44 0.01	3333.( 71.8 20.( 1785.)	S 0 8 0 1	RI ISH/ Q. M 8.13 0.18 0.05 1.77	1 FFLE FISH ACRE 32892 709 196 7174	.1 .0 .9 .5 .7	0.9 0.0 0.0	POOL / 1 / 1 / 2 / 2 / 2 / 1 / 9 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	708.8 79.9 22.2	WETTED TOTAL WT (GM) 72.6 34.7 25.7 63.3	O. 18 O. 09 O. 06 O. 18	1.60 0.76 0.57 1.57	RII GM/ SQ. M 1.77 0.84 0.63 0.71	LB/ ACRE 15.75 7.59 5.58 6.32	GM/ SQ. M O.20 O.10 O.07 O.23 O.11	1.70 0.81 0.61 2.01 0.91
ULY 13-	AGE 15/76 0 1 11 0 1 11	0.82 0.02 0.00 0.44 0.01	3333.( 71.8 20.( 1785.)	S 0 8 0 1 7 8	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.05	32892 709 196 7174 203	.1 .0 .9 .5 .7 .8	0.9 0.0 0.0 0.5 0.0	POOL / 1 / 1 / 2 / 2 / 2 / 2 / 2 / 1 / 2 / 2	708.8 79.9 22.2 376.4 67.5	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9	O. 18 O. 08 O. 08 O. 09	TTED LB/ ACRE 1.60 0.76 0.57 1.57 0.74 0.81	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33	LB/ ACRE 15.75 7.53 5.58 6.32 2.99	O.20 O.10 O.07 O.23 O.11	1.71 0.81 0.63 2.01 0.91
ULY 13-	AGE 15/76 0 1 11 0 1 11 111	0.82 0.02 0.02 0.00 0.44 0.01	3333 . 6 71.4 20.6 1785 . 50.7 33 . 8	S S S S S S S S S S S S S S S S S S S	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.05 0.03	32892 709 196 7174 203	.1 .0 .9 .5 .7 .8	0.9 0.0 0.0	POOL / 1 / 1 / 2 / 2 / 2 / 1 / 2 / 2 / 1 / 2 / 2	FISH/ ACRE 708.8 79.9 22.2 376.4 67.5	WETTED TOTAL WT (GM) 72.6 34.7 25.7 63.3 29.9 32.5	O. 18 O. 09 O. 06 O. 18 O. 08	TTED LB/ ACRE 1.60 0.76 0.57 1.57 0.74 0.81	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36	15.75 7.53 5.58 6.32 2.99 3.24	GM/ SQ. M 0.20 0.10 0.07 0.23 0.11 0.12	1.70 0.81 0.63 2.01 0.91 1.01
ULY 13-	111 AGE 15/76 0 1 11 0 1 11 111	FISH/ SQ. M 0.82 0.02 0.00 0.44 0.01 0.01	3333.0 71.1 20.0 1785. 50.7 33.8	S 0 8 0 1 7 8	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.05 0.03	32892 709 196 7174 203 135	.1 .0 .9 .5 .7 .8	0.9 0.0 0.0 0.5 0.0	POOL / 1 / 1 / 2 / 3 / 2 / 2 / 1 / 9 / 2 / 2 / 1 / 8 / 1 / 4 / 5 / 4	708.8 79.9 22.2 376.4 67.5 45.0	WETTED TOTAL WT (GM) 72.6 34.7 25.7 63.3 29.9 32.5 7.8	WE GM/ SQ: M O 18 O 09 O 18 O 09 O 09	1.60 0.76 0.57 1.57 0.74 0.81	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36	15.75 7.53 5.58 6.32 2.99 3.24	O.20 O.10 O.07 O.23 O.11 O.12	1.78 0.88 0.63 2.09
ULY 13-	15/7G O I II O I III O I	0.82 0.02 0.02 0.00 0.44 0.01 0.01	3333.6 71.1 20.6 1785.50.3 33.8	S 0 8 0 1 7 8	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.05 0.03	7 FFLE FISH ACRE 32892 709 196 7174 203 135	.1 .0 .9 .5 .7 .8 .2 .7 .4	0.9 0.0 0.0 0.5 0.0 0.0	POOL / 1 1 2 2 3 1 1 9 2 3 1 1 8 1 1 5 5 5 5 5	708.8 79.9 22.2 376.4 67.5 45.0	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9 32.5 7.8 112.7	WE GM/ SQ. M O.18 O.09 O.06 O.18 O.08 O.09	1.60 0.76 0.57 1.57 0.74 0.81 0.26 3.78 1.74	1.77 0.84 0.63 0.71 0.33 0.36	15.75 7.53 5.58 6.32 2.99 3.24	O.20 O.10 O.07 O.23 O.11 O.12 O.04 O.63 O.25	1.76 0.85 0.63 2.05 0.95 1.07 0.35 5.63 2.22
ULY 13-	AGE 15/76 0 1 11 0 1 11 0 1 11 0 1	0.82 0.02 0.00 0.44 0.01 0.01 0.12 0.09 0.98	3333.( 71.1 20.( 1785. 50.1 373.1 3978.2	S 0 8 0 1 7 8 2 3 2 7	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.05 0.03 0.38 0.28 4.55	32892 709 196 7174 203 135 1530 1139 18418	.1 .0 .9 .5 .7 .8 .2 .7 .4 .7	FISH SQ. 0.9 0.0 0.0 0.5 0.0 0.0 0.1 1.2	POOL	708.8 79.9 22.2 376.4 67.5 45.0	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9 32.5 7.8 112.7 53.2	O 18 O 08 O 08 O 08 O 09 O 03 O 42 O 20 O 012	TTED LB/ ACRE 1.60 0.76 0.57 1.57 0.74 0.81 0.26 3.78 1.74 1.06	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36 0.09 1.30 0.90 0.90	15.75 7.53 5.58 6.32 2.99 3.24 0.80 11.55 8.05	O.20 O.10 O.07 O.23 O.11 O.12 O.04 O.63 O.25 O.15	1.77 O.88 O.66 2.09 O.38 1:00
ULY 13-	AGE 15/76 0 1 11 0 1 11 0 1	0.82 0.02 0.00 0.44 0.01 0.01 0.09 0.98 0.03 0.04	9333 ( 71.1 20 ( 1785 . 50 . 33 .8 501.2 373 118 .7	S 0 8 0 1 7 8 2 3 2 7	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.05 0.03 0.28 4.55 0.14	32892 709 196 7174 203 135 1530 1139 18418	.1 .0 .9 .5 .7 .8 .2 .7 .4 .7	0.9 0.0 0.0 0.0 0.5 0.0 0.1 0.1 1.2	POOL	708.8 79.9 22.2 376.4 67.5 45.0 745.4 1555.2	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9 32.5 7.6 112.7 53.2 32.4	O 18 O 08 O 08 O 08 O 09 O 03 O 042	TTED LB/ ACRE 1.60 0.76 0.57 1.57 0.74 0.81 0.26 3.78 1.74 1.06	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36 0.09	15.75 7.53 5.58 6.32 2.99 3.24 0.80 11.55 8.05	O.20 O.10 O.07 O.23 O.11 O.12 O.04 O.63 O.25 O.15	1.77 O.88 O.66 2.09 0.09 1.07 0.38 5.66 2.22
ULY 13-	AGE 15/76 0 1 11 0 1 11 0 1 1 1 1 1 1 1 1 1 1 1	FISH/ SQ. M 0.82 0.02 0.00 0.44 0.01 0.01 0.12 0.09 0.98	9333 ( 71.1 20 ( 1785 . 50 . 33 .8 501.2 373 118 .7	S S S S S S S S S S S S S S S S S S S	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.05 0.03 0.28 4.55 0.14	32892 709 196 7174 203 135 1530 1139 18418	.1.0.9.5.7.8	0.9 0.0 0.0 0.0 0.5 0.0 0.1 0.1 1.2	POOL / 1 1 2 2 3 1 1 9 2 3 2 1 1 8 4 5 5 5 6 4 4 5 5	708.8 79.9 22.2 376.4 67.5 45.0 745.4 1555.2	WETTED TOTAL WT (GM) 72.6 34.7 25.7 63.3 29.9 32.5 7.8 112.7 53.2 32.4 78.9	O 18 O 08 O 08 O 08 O 09 O 03 O 42 O 20 O 012	1.60 0.76 0.57 1.57 0.74 0.81 0.26 3.78 1.74 1.06	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36 0.09 1.30 0.90 0.90	15.75 7.53 5.58 6.32 2.99 3.24 0.80 11.55 8.05	O.20 O.10 O.07 O.23 O.11 O.12 O.04 O.63 O.25 O.15 O.22	1.77 O.88 O.66 2.00 O.99 1.00 O.33 5.66 2.22 1.33 2.00
ULY 13-	AGE 15/7G 0 1 11 0 1 11 11 11 11 11 11 11 11 11 1	0.82 0.02 0.00 0.44 0.01 0.01 0.09 0.98 0.03 0.04	3333.( 71.8 20.0 1785. 50.3 373.3 3978.2 118.1	S 0 8 0 1 7 8 2 2 7 7 3	RIISH/ Q. M 8.13 0.18 0.05 1.77 0.05 0.03 0.38 0.28 4.55 0.14 0.27	32892 709 196 7174 203 135 1530 1139 18418 549	.1 .0 .9 .5 .7 .8 .2 .7 .4 .7 .6 .1	0.9 0.0 0.0 0.5 0.0 0.1 1.2 0.0	POOL / M / / 2 37 2 2 1 1 9 2 3 2 1 1 8 8 4 5 5 5 6 4 5 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	708.8 79.9 22.2 276.4 67.5 45.0 745.4 155.2 074.1	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9 32.5 7.8 112.7 53.2 32.4 78.9	O 18 O 08 O 08 O 08 O 08 O 09 O 03 O 04 O 02 O 012 O 19	1.60 0.76 0.57 1.57 0.74 0.81 0.26 3.78 1.74 1.06 1.71	1.77 0.84 0.63 0.71 0.33 0.36 0.09 1.30 0.55	15.75 7.53 5.58 6.32 2.99 3.24 0.80 11.55 8.05 4.91 11.63	0.20 0.10 0.07 0.23 0.11 0.12 0.04 0.63 0.25 0.15 0.22	1.77 O.88 O.65 2.00 O.99 1.00 O.31 5.62 2.22 1.31 2.00
ULY 13-	AGE 15/76 0 1 11 0 1 11 11 0 1 11 11 11 11 11	FISH/ SQ. M 0.82 0.02 0.00 0.44 0.01 0.01 0.12 0.09 0.98 0.03 0.04	3333 ( 71.1 20.1 1785 50.1 373 3978 118 160	S S S S S S S S S S S S S S S S S S S	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.03 0.03 0.28 4.55 0.14 0.27	32892 709 196 7174 203 135 1530 1139 18418 549 1092	.1 .0 .9 .5 .7 .8 .2 .7 .4 .7 .6 .1	0.90 0.00 0.00 0.00 0.01 1.21 0.00 0.01	POOL / M / / 2 37 2 2 1 1 9 2 3 2 1 1 8 8 4 5 5 5 6 4 5 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	708.8 79.9 22.2 376.4 67.5 45.0 745.4 555.2 5774.1	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9 32.5 7.8 112.7 53.2 32.4 78.9 48.6	O 18 O 08 O 08 O 09 O 03 O 02 O 12 O 19	1.60 0.76 0.57 1.57 0.74 0.81 0.26 3.78 1.74 1.06	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36 0.09 1.30 0.90 0.55 1.30	15.75 7.53 5.58 6.32 2.99 3.24 0.80 0.11.55 8.05 4.91 11.63	0.20 0.10 0.07 0.23 0.11 0.12 0.04 0.63 0.25 0.15 0.22	1.77 O.88 O.65 2.00 O.99 1.00 O.31 5.65 2.22 1.31 2.00
ULY 13-	AGE 15/76 0 1 11 0 1 11 11 11 11 0 1 11 11 11 0	0.82 0.02 0.00 0.44 0.01 0.01 0.12 0.09 0.98 0.03 0.04 0.04 0.00	3333.0 71.1 20.0 1785. 50.3 33.8 501.2 373.3 118.1 160.3	S S S S S S S S S S S S S S S S S S S	RI ISH/ Q. M 8.13 0.18 0.05 1.77 0.03 0.03 0.28 4.55 0.14 0.27	32892 709 196 7174 203 135 1530 1139 18418 549 1092	/ .1 .0 .9 .5 .7 .8 .2 .7 .4 .1 .9	0.90 0.00 0.00 0.00 0.01 1.21 0.00 0.01	POOL / 1 / 1 / 2 / 2 / 2 / 1 / 2 / 2 / 2 / 1 / 2 / 2	708.8 79.9 22.2 376.4 67.5 45.0 745.4 555.2 5774.1	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9 32.5 7.8 112.7 53.2 32.4 78.9 48.6	O 18 O 08 O 08 O 09 O 03 O 02 O 12 O 19	1.60 0.76 0.57 0.57 0.74 0.81 0.26 3.78 1.74 1.06 1.71	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36 0.09 1.30 0.90 0.55 1.30	15.75 7.53 5.58 6.32 2.99 3.24 0.80 0.11.55 8.05 4.91 11.63	O.20 O.10 O.07 O.23 O.11 O.04 O.63 O.25 O.15 O.22	1.77 0.86 0.66 2.00 0.99 1:00 0.31 5.66 2.22 1.33 2.00
ULY 13-	AGE 15/76 0 1 11 0 1 11 11 11 0 1	0.82 0.02 0.00 0.44 0.01 0.01 0.12 0.09 0.98 0.03 0.04 0.04 0.00	9333.0 71.1 20.0 1785. 50.1 373.3 3978.2 118.1 160.3	S S S S S S S S S S S S S S S S S S S	RIISH/ Q. M 88.13 0.18 0.05 1.77 0.05 0.05 0.05 0.28 4.55 0.14	32892 709 196 7174 203 135 1530 1139 18418 549 1092	/ .100.955.77.88.27.447.66.1.997	0.9 0.0 0.0 0.0 0.0 0.0 0.1 1.2 0.0 0.0	POOL / 1 2 3 1 2 2 1 1 9 2 3 1 1 8 4 1 5 5 6 4 5 5 6 4 5 5 6 6 1 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	708.8 79.9 22.2 376.4 67.5 45.0 745.4 555.2 0745.4 187.9	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9 32.5 7.8 112.7 53.2 32.4 78.9 48.6 7.1	WE GM/ SQ. M O.18 O.09 O.06 O.18 O.09 O.03 O.42 O.20 O.12 O.19 O.16	1.60 0.76 0.57 1.57 0.74 0.81 0.26 3.78 1.74 1.06 1.71 1.38 0.20	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36 0.09 1.30 0.55 1.30	LB/ ACRE 15.75 7.59 5.58 6.32 2.99 3:24 0.80 11.55 8.05 4.91 11.63	O.20 O.10 O.07 O.23 O.11 O.12 O.04 O.63 O.25 O.15 O.22	1.77 O.88 O.66 2.00 O.99 1.00 O.31 5.66 2.22 1.31 2.00 4.11
ULY 13-	AGE 15/76 0 1 11 0 1 11 11 11 11 0 1 11 11 11 0	0.82 0.02 0.00 0.44 0.01 0.01 0.12 0.09 0.98 0.03 0.04 0.04 0.00	3333.0 71.8 20.0 1785.5 50.3 33.8 501.3 3978.1 118.1 160.3	S S S S S S S S S S S S S S S S S S S	RIISH/Q. M 88.13 00.05 11.77 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 00.05 0	32892 709 196 7174 203 135 1530 1139 18418 549 1092 324 25	/ .10.99.57.8 .27.44.77.6 .1.9	0.90 0.00 0.00 0.01 0.11 1.22 0.00 0.00 0.0	POOL / M / J / S / S / S / S / S / S / S / S / S	708.8 79.9 22.2 376.4 67.5 45.0 745.4 151.4 187.9 322.8 25.8	WETTED TOTAL WT (GM). 72.6 34.7 25.7 63.3 29.9 32.5 7.8 112.7 53.2 32.4 78.9 48.6 7.1	WE GM/ SQ: M O.18 O.08 O.06 O.18 O.08 O.09 O.03 O.42 O.20 O.12 O.19	TTED LB/ ACRE 1.60 0.76 0.57 1.57 0.74 0.81 0.26 3.78 1.74 1.06 1.71 1.38 0.20	RII GM/ SQ. M 1.77 0.84 0.63 0.71 0.33 0.36 0.90 0.55 1.30 0.31 0.05	15.75 7.53 5.58 6.32 2.99 3.24 0.80 11.55 8.05 4.91 11.63 2.77 0.41	0.20 0.10 0.07 0.23 0.11 0.12 0.04 0.63 0.25 0.15 0.22	1.7 O.8 O.6 2.0 O.9 1.0 O.3 5.6 2.2 2.1 3.2 0.4

SECTION	AGE	AREA (	SQ.M)	SECT. LEN (M)		C2	POP.		VAR.	CONF.			MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (		
EP. 20-									٠.				٠, ٠				Ž,	
II	0	370.9	24.7	73	. 82:		103		10.8	96.9	110.0	0.79	0.76	43.9	3.59	0.24	3.35	
	1					0	- 1.		0.0	1.0	1.0	1.00	7.74	93.0	370,90	24.70		
11.	11	250 0			0	1					2.		28.10	142.0				
11.	0	358.2	28.6	55	30	12	50		51.9	35.6		0.60	1.40	53.4	7.16	.0.57	6.59	
V	0				1	0	1	* *	0.0	1.0		1.00	9.26	99.0	358.20	28.60	329.60	
•	-	262.0	68.7	38.	41	9	. 53		6.5	47.4		0.78	1.05	48.2	4.99	1.31	3.68	
	1				4	1	5		1.0	3.3	7.3	0.75	5.61	84.6	49.13	12.88	36.24	
	0.	256.8	66.0	48	- 77	15	96		8.3	89.9	101.4	0.81	0.79	.44.3	2.69	0.69	2.00	4 6
	I				. 1	. 1							5.34	81.5				*
1	O.				1	. 0	1		0.0	1.0		1.00	20.84	129.0	256.80	66.00	190.80	
		388.5	78.7	53	. 2	1	4		12.0	-2.9		0.50	0.88	55.0	97.13	19.67		
	1				12	5	. 21		25.5	10.5	30.7	0.58	5.93	84.5	18.89	3,83	. 15.06	5.
	11				0	. 3							11.45	106.0		7.10		
111	0	288.3	110.8	62	8	3 .	13		10.1	6.4	19.2	0.63	1.4.1	55.9	22.52	8.66	. 13.87	
	I .				. 7	1	8		0.3	7.1	9.3	0.86	5.30	81.4	35.30	13.57		
	-						2.1				2.			1.				
LL	0	1924.7	377.5		240	57	315		49.6	300.7	328.8	0.76	0.93	46.6	6.11	1.20	4.92	
	I			0.0	26	R	. 38		14.0	20 4	45.0	0 60	5.85	84.3	51.25			
					20		. 30		1.9.0	30.1								
	11	W	TTED		RI	FFLE			POOL		VETTED	ME	16.66 TTED	117.8 RIF	FLE		POOL	
ECTION	11		TTED .	F	-1	FFLE	4/		POOL F)		WETTED	WE'	16.66	117.8 RIF			POOL LB/	
ECTION	AGE	FISH/	TTED FISH/	F	RI ISH/	FFLE FISH	4/	FISH/	POOL F)	SH/ TO	WETTED	WE'	16.66 TTED LB/	117.8 RIF GM/	FLE LB/	GM/	POOL LB/	
ECTION	AGE	FISH/ SO. M	FISH/ ACRE	, F	RI ISH/ Q. M	FFLE FISH ACRE	1/	FISH/	POOL F)	SH/ TO	WETTED DTAL WT (GM)	WE' GM/	16.66 TTED LB/ ACRE	117.8 RIF GM/ SQ. M	FLE LB/ ACRE	GM/ SQ.	POOL LB/ M ACRE	
ECTION	AGE	FISH/ SO. M	FISH/ ACRE	, F	RI ISH/ Q. M	FFLE FISH ACRE	1/	FISH/ SQ. #	POOL F)	SH/ TO	WETTED DTAL WT (GM)	WE' GM/ SQ: M	16.66  TTED LB/ ACRE	117.8 RIF GM/ SQ. M	FLE LB/ ACRE	GM/ SQ. 1	POOL LB/ M ACRE	
ECTION	AGE 23/76	FISH/ SO. M	FISH/ ACRE	, F	RI ISH/ Q. M	FFLE FISH ACRE	1/	FISH/	POOL F)	SH/ TO	WETTED DTAL WT (GM)	WE' GM/	16.66 TTED LB/ ACRE	117.8 RIF GM/ SQ. M	FLE LB/ ACRE	GM/ SQ.	POOL LB/ M ACRE	
ECTION EP. 20-2	AGE 23/76 O	FISH/ SO. M	FISH/ ACRE	FS	RI ISH/ Q. M 4.19	FFLE FISH ACRE	0.3	FISH/ SQ. N	POOL F A	SH/ TO	WETTED DTAL WT (GM)	WE GM/ SQ: M	16.66 TTED LB/ ACRE 1.89 0.19	RIF GM/ SQ. M	28.35 2.79	GM/ SQ. 1	POOL LB/ M ACRE	
ECTION EP. 20-2	AGE 23/76 0 1	WI F1SH/ S0. M	FISH/ ACRE 1128.7 10.9	, F S	RI ISH/ Q. M 4.19 0.04	16949 163	0.3	0.30 0.00	POOL F.	SH/ TO	78.5 7.7	GM/ SQ: M 0.21 0.02	16.66 TTED LB/ ACRE 1.89 0.19	RIF GM/ SQ. M 3.18 0.31 2.45	28.35 2.79	GM/ SQ. 1	POOL LB/M ACRE	
EP. 20-2	AGE 23/76 O I III O	FISH/ SO. M 0.28 0.00	FISH/ ACRE	, F	RI ISH/ Q. M 4.19 0.04 1.75 0.03	16948 163 7075	0.3	0.30 0.00	POOL F)	9.3 1.7 3.9 2.3	WETTED DTAL WT (GM)  78.5 7.7  70.0 9.3	WE' GM/ SQ: M	16.66 TTED LB/ ACRE 1.89 0.19 1.74 0.23	RIF GM/ SQ. M 3.18 0.31 2.45 0.32	28.35 2.79 21.84 2.89	GM/ S0. I	DOOL LB/M ACRE 3 2.02 2 0.20 1 1.90 3 0.25	
ECTION EP. 20-2	AGE 23/76 0 1 111 0 1	0.28 0.00 0.14 0.00	FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4	, F	RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76	16948 163 163 163 163 163	0.3	0.30 0.00 0.15 0.00	POOL F. 120	9.3 1.7 3.9 9.8	78.5 7.7 70.0 9.3 55.2	WE GM/ SQ: M 0.21 0.02 0.20 0.03 0.21	16.66 TTED LB/ ACRE 1.89 0.19 1.74 0.23 1.88	3.18 0.31 2.45 0.80	28.35 2.79 21.84 2.89	GM/ SQ. 1	DOOL LB/ACRE  3 2.02 2 0.20 1 1.90 3 0.25 9 2.55	
ECTION EP. 20-2	AGE 23/76 O I I I I O I O	0.28 0.00 0.14 0.00 0.20 0.02	FITED FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4 82.4	, F	RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08	16948 163 7075 13094	1/ 1.3 1.8 5.2 .5	0.30 0.00 0.15 0.00	POOL F. 120	9.3 1.7 3.9 9.8 1.7	78.5 7.7 70.0 9.3 55.2 29.9	WE GM/ SQ: M 0.21 0.02 0.20 0.03 0.21 0.11	16.66 TTED LB/ AGRE 1.89 0.19 1.74 0.23 1.88 1.02	3.18 0.31 2.45 0.80 0.44	28.35 2.79 21.84 2.89 7.17 3.89	GM/ S0. 1	DOOL LB/M ACRE  3 2.02 2 0.20 1 1.90 0.25 9 2.55 5 1.38	
EP. 20-2	AGE 23/76 O I I I I O I I O I I	0.28 0.00 0.14 0.00	FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4	, F	RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76	16948 163 163 163 163 163	1/ 1.3 1.8 5.2 .5	0.30 0.00 0.15 0.00	POOL F. 120	9.3 1.7 3.9 9.8	78.5 7.7 70.0 9.3 55.2 29.9	WE GM/ SQ: M 0.21 0.02 0.20 0.03 0.21	16.66 TTED LB/ ACRE 1.89 0.19 1.74 0.23 1.88	3.18 0.31 2.45 0.80	28.35 2.79 21.84 2.89	GM/ SQ. 1	DOOL LB/M ACRE  3 2.02 2 0.20 1 1.90 0.25 9 2.55 5 1.38	
ECTION EP. 20-2	AGE 23/76 O I I I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I O I I	0.28 0.00 0.14 0.00 0.20 0.02 0.02	FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4 82.4	S	RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08 1.45	16948 163 7075 141 3094 314 5863	3.8 3.8 5.2 5.5 5.2	0.30 0.00 0.15 0.00 0.27 0.03 0.50	POOL F; A0	99.3 1.7 3.9 2.3 9.8 1.7 8.4	78.5 7.7 70.0 9.3 55.2 29.9 75.6	WE' GM/ 50: M 0.21 0.02 0.20 0.03 0.21 0.11	16.66 TTED LB/ ACRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62	3.18 0.31 2.45 0.32 0.80 0.44 1.14	28.35 2.79 21.84 2.89 7.17 3.89 10.21	0.22 0.00 0.22 0.00 0.23 0.11	POOL LB/ACRE  3 2.02 2 0.20 1 1.90 3 0.25 9 2.55 5 1.38 0 3.53	
EP. 20-2	AGE 23/76 O I I I O I O I O I O O I O O I O O I O O I O O I O O I O O O O O O O O O O O O O O O O O O O O	0.28 0.00 0.14 0.00 0.20 0.37	FITED FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4 82.4 1507.1	S	1 RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08 1.45	4 FFLE FISH ACRE 16948 163 7075 141 3094 314 5863	1/ 1.8 3.8 5.2 5.5 1.2	0.30 0.00 0.15 0.00 0.27 0.03 0.50	POOL F) A0	SH/ TO SRE  99.3 1.7 3.9 2.3 9.8 1.7 8.4	78.5 7.7 70.0 9.3 55.2 29.9 75.6	WE' GM/ 50' M 0.21 0.02 0.20 0.03 0.21 0.11 0.29	16.66 TTED LB/ AGRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62 0.72	3.18 0.31 2.45 0.32 0.80 0.44 1.14	28.35 2.79 21.84 2.89 7.17 3.89 10.21 2.82	GM/ SQ. 1 0.22 0.03 0.22 0.03 0.24 0.44	DOOL LB/ACRE  3 2.02 2 0.20 1 1.90 3 0.25 9 2.55 1 38 0 3.53	
P. 20-2	AGE 23/76 0 1 11 0 1 0 1 11 0 1 11 0	0.28 0.00 0.14 0.00 0.20 0.02 0.37	FITED FISH/ACRE  1128.7 10.9 564.9 11.3 811.4 82.4 1507.1	, FS	RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08 1.45	4 FFLE FISH ACRE 16948 163 7075 141 3094 314 5863	1/ 1.8 3.8 5.2 5.5 1.2 1.8	0.30 0.00 0.15 0.00 0.27 0.03 0.50	POOL F) A0	99.3 1.7 3.9 2.3 1.7 8.4	78.5 7.7 70.0 9.3 55.2 29.9 75.6	0.21 0.02 0.20 0.03 0.11 0.19 0.08	16.66 TTED LB/ ACRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62 0.72 0.08	3.18 0.31 2.45 0.32 0.80 0.44 1.14	28.35 2.79 21.84 2.89 7.17 3.89 10.21 2.82 0.40	GM/ SQ. 1 0.2: 0.00 0.2: 0.00 0.2: 0.11 0.40	POOL LB/M ACRE  3 2.02 2 0.20 1 1.90 3 0.25 3 2.55 1.38 0 3.53	
ECTION P. 20-2	AGE 23/76 0 1 11 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1	0.28 0.00 0.14 0.00 0.20 0.37	FITED FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4 82.4 1507.1	, FS	1 RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08 1.45	4 FFLE FISH ACRE 16948 163 7075 141 3094 314 5863	1/ 1.8 3.8 5.2 5.5 1.2 1.8	0.30 0.00 0.15 0.00 0.27 0.03 0.50	POOL F) A0	SH/ TO SRE  99.3 1.7 3.9 2.3 9.8 1.7 8.4	78.5 7.7 70.0 9.3 55.2 29.9 75.6	WE' GM/ 50' M 0.21 0.02 0.20 0.03 0.21 0.11 0.29	16.66 TTED LB/ AGRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62 0.72	3.18 0.31 2.45 0.32 0.80 0.44 1.14	28.35 2.79 21.84 2.89 7.17 3.89 10.21 2.82	GM/ SQ. 1 0.22 0.03 0.22 0.03 0.24 0.44	DOOL LB/M ACRE  3 2.02 2 0.20 1 1.90 3 0.25 3 2.55 3 3.53 1 0.97	
EP. 20-2	AGE 23/76 0 1 11 0 1 0 1 11 11 11 11	0.28 0.00 0.14 0.00 0.20 0.02 0.37	FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4 82.4 1507.1 15.8 41.7 214.3	, F	RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08 1.45 0.02 0.05 0.26	16948 163 7078 141 3094 314 5863 61 205	3.8 3.8 5.2 5.5 5.8 .3 .7	0.30 0.00 0.15 0.00 0.27 0.03 0.50	POOL F) A0 120 120 11 202 2 5 26	99.3 1.7 3.9 2.3 9.8 1.7 8.4 1.2 2.3	78.5 7.7 70.0 9.3 55.2 29.9 75.6 20.8 3.5	0.21 0.02 0.20 0.03 0.21 0.11 0.29 0.08 0.01	16.66 TTED LB/ ACRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62 0.72 0.08 2.80	3.18 0.31 2.45 0.80 0.44 1.14 0.32 0.04 1.55	28.35 2.79 21.84 2.89 7.17 3.89 10.21 2.82 0.40 13.82	0.22 0.00 0.22 0.01 0.23 0.11 0.40	POOL LB/ACRE  3 2.02 2 0.20 1 1.90 3 0.25 5 1.38 5 1.38 0 3.53 1 0.97 1 0.10 3 3.51	
ECTION EP. 20-2	AGE 23/76 0 1 11 0 1 0 1 11 0 1 11 0 1 11 0 1 11 0 1	0.28 0.00 0.14 0.00 0.20 0.02 0.37 0.00 0.01 0.05	FITED FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4 82.4 1507.1 15.8 41.7 214.3	, FS	1 RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08 1.45 0.02 0.05 0.26	4 FFLE FISH ACRE 16949 163 7075 141 3094 314 5863 61 205 1057	3.8 5.2 5.5 .2 .8 .3 .7 .8	FISH/SQ. # 0.300 0.000 0.15 0.000 0.27 0.03 0.50	POOL F) A0 120 120 110 110 11 202 26 29	SH/ TGRE  99.3 1.7 3.9 2.3 9.8 1.7 8.4 1.2 2.3 8.7 1.8	78.5 7.7 70.0 9.3 55.2 29.9 75.6 20.8 3.5 121.9	0.21 0.02 0.20 0.20 0.23 0.21 0.11 0.29 0.08 0.01	16.66 TTED LB/AGRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62 0.72 0.08 2.80	3.18 0.31 2.45 0.32 0.80 0.44 1.14 0.32 0.04 1.55	28.35 2.79 21.84 2.89 7.17 3.89 10.21 2.82 0.40 13.82	0.22 0.03 0.22 0.03 0.11 0.44 0.11 0.00 0.38	DOOL LB/ACRE  3 2.02 2 0.20 1 1.90 0.25 5 1.38 0 3.53 1 0.97 1 0.10 3 3.51	
ECTION EP. 20-2	AGE 23/76 0 1 11 0 1 0 1 11 11 11 11	0.28 0.00 0.14 0.00 0.20 0.02 0.37	FISH/ ACRE 1128.7 10.9 564.9 11.3 811.4 82.4 1507.1 15.8 41.7 214.3	, FS	RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08 1.45 0.02 0.05 0.26	16948 163 7078 141 3094 314 5863 61 205	3.8 5.2 5.5 .2 .8 .3 .7 .8	0.30 0.00 0.15 0.00 0.27 0.03 0.50 0.01	POOL F) A0 120 120 110 110 11 202 26 29	99.3 1.7 3.9 2.3 9.8 1.7 8.4 1.2 2.3	78.5 7.7 70.0 9.3 55.2 29.9 75.6 20.8 3.5	0.21 0.02 0.20 0.03 0.21 0.11 0.29 0.08 0.01	16.66 TTED LB/ ACRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62 0.72 0.08 2.80	3.18 0.31 2.45 0.80 0.44 1.14 0.32 0.04 1.55	28.35 2.79 21.84 2.89 7.17 3.89 10.21 2.82 0.40 13.82	0.22 0.00 0.22 0.01 0.23 0.11 0.40	DOOL LB/ACRE  3 2.02 2 0.20 1 1.90 0.25 5 1.38 0 3.53 1 0.97 1 0.10 3 3.51	
ECTION EP. 20-2	AGE 23/76 0 1 11 0 1 10 1 11 0 1 11 0 1 11 0 1 11 0 1	0.28 0.00 0.14 0.00 0.20 0.02 0.02 0.01 0.05	1128.7 10.9 564.9 11.3 811.4 82.4 1507.1 15.8 41.7 214.3	S S	RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.03 0.76 0.02 0.05 0.02 0.05	16948 163 7075 141 3094 314 5863 61 205 1057	3.8 5.2 5.5 2.8 .3 .7 .8	0.300 0.000 0.15 0.000 0.27 0.03 0.50 0.01 0.01 0.07	POOL F) ACC 120 120 120 11 202 25 26 18	99.3 1.7 3.9 2.3 9.8 1.7 8.4 1.2 2.3 8.7	78.5 7.7 70.0 9.3 55.2 29.9 75.6 20.8 3.5 121.9	0.21 0.02 0.20 0.03 0.21 0.11 0.29 0.08 0.01 0.31	16.66 TTED LB/ ACRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62 0.72 0.08 2.80 0.56 1.34	3.18 0.31 2.45 0.32 0.80 0.44 1.14 0.32 0.04 1.55 0.39	28.35 2.79 21.84 2.89 7.17 3.89 10.21 2.82 0.40 13.82 1.45 3.49	GM/ SQ. 1 0.22 0.00 0.22 0.01 0.11 0.040 0.35 0.110 0.24	POOL LB/ACRE  3 2.02 2 0.20 1 1.90 3 0.25 9 2.55 5 1.38 0 3.53 1 0.97 0 10 0 3.51 0 0.90 1 2.18	
ECTION  EP. 20-2  III  V	AGE 23/76 0 1 11 0 1 0 1 11 0 1 11 0 1 11 0 1 11 0 1	0.28 0.00 0.14 0.00 0.20 0.02 0.37 0.00 0.01 0.05	1128.7 10.9 564.9 11.3 811.4 82.4 1507.1 15.8 41.7 214.3 179.7 114.6	S S	1 RI ISH/ Q. M 4.19 0.04 1.75 0.03 0.76 0.08 1.45 0.02 0.05 0.26	4 FFLE FISH ACRE 16949 163 7075 141 3094 314 5863 61 205 1057	3.8 3.8 5.2 5.5 2.8 .3 .7 .8	FISH/SQ. # 0.300 0.000 0.15 0.000 0.27 0.03 0.50	POOL F; 120 120 120 11 202 25 26 18 82	99.3 1.7 3.9 9.8 1.7 8.4 1.2 2.3 8.7 1.8 6.2	78.5 7.7 70.0 9.3 55.2 29.9 75.6 20.8 3.5 121.9	0.21 0.02 0.20 0.20 0.23 0.21 0.11 0.29 0.08 0.01	16.66 TTED LB/AGRE 1.89 0.19 1.74 0.23 1.88 1.02 2.62 0.72 0.08 2.80	3.18 0.31 2.45 0.32 0.80 0.44 1.14 0.32 0.04 1.55	28.35 2.79 21.84 2.89 7.17 3.89 10.21 2.82 0.40 13.82	0.22 0.03 0.22 0.03 0.11 0.44 0.11 0.00 0.38	POOL LB/ACRE  3 2.02 2 0.20 1 1.90 3 0.25 9 2.55 5 1.38 0 3.53 1 0.97 0 10 0 3.51 0 0.90 1 2.18	

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SECTION	AGE	AREA (		SECT. LEN (M)		C2 P	OP.		VAR.	CO	NF.	CENT LIMITS UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	
MAY 16-			495.1			8							0.70	3.05	68.0	70.07	15:47	54.5
ALL	III.	2242.1	495.1	363	2	3	32	٠. '	96.	, ,	2.4	51.6	0.50	8.77	97.2	10.01	15.47	54.5
JULY 19										•								
ALL	0	2319.1	442.3	355	19	3	23		1.			24.7		0.90	44.7	102.79	19.60	83.1
	I				18	4	23		3.0		9.7		0.78	6.55	85.0	100.21	19.11	81.1
	II				8	5.	21		256.	310	0.7	53.4	:0.38	11.11	102.3	108.71	20.73	87.9
SEP. 26	-29/77											•						
ALL .	0	2346.9	489.1	357	21	10	40		93.4		8.0		0.52	2.20	59.9	58.54	12.20	46.3
	II	d 12.			9	6	27		540.		9.5		0.33	9.87	94.9	86.92 77.58	18.11	68.8
	11				11	,	30		416.1	- 10	0.6	71.1	0.36	10.42	100.4	//.56	10.17	01.4
		ы	ETTED	*					POOI	,	141		WE	TTED	07	FFLE	00	OL
		FISH/		/ F	ISH/	FFLE FISH/				FISH/		TAL WT	GM/	LB/		LB/	GM/	
SECTION	AGE				Q. M	ACRE	*	50. 1		ACRE		(GM)	SQ. M			ACRE	SQ. M	
MAY 16-	19/77								1 4				: :	1 3.	: .			
ALL	I	0.01	57.	8	0.06	261.	6	0.0	2	74.1		97.5	0.04	0.39	0.20	1.76	0.06	0.5
	II														,.			2 11
W 11 11 10												i tee		1000	10			11
JULY 19-	0	0.01	39.		0.05	206.		0.0		48.7		20.4	0.01	0.08	0.05	0.41	0.01	0.1
	ĭ	0.01			0.05	211.		0.0		49.9		151.7	0.07		0.34			0.7
	iı	0.01			0.05	195.		0.0		46.0				0.91	0.54			
			-1.										*					× .
EP. 26							_							10				
LL	0	0.02			0.08	331.		0.0		87.3		88.1	0.04	0.33	0.18			0.4
	II	0.01			0.06	223. 250.		0.0		58.8 65.9		266.4	0.11	1.01	0.54			1.2
1	**	0.01	. 52.		0.06	250.	3	0.0	2	65.9		105.9	9.17	1.54	0.83	7.40	0.22	1.8
		4																

JUNE 5-8/78 ALL '

JULY 25-27/78 ALL O

0

T

II

SEP. 20-0CT. 5/78 .0

III

0 1.

II .

0

SEP. 20-0CT. 5/78

0

SECTION AGE

JUNE 5-8/78 ALL

JULY 25-27/73

ALL

ALL

AREA (SQ.M)

2282.9

SECTION AGE WETTED RIFFLE (M) 'C1 'C2

WETTED

FISH/

ACRE

23.2

9.5

116.5

51.1

12.8

25.9

17.6

13.2

1.6

FISH/

SQ. M

0.01

0.00

0.03.

0.01

0.00

0.01

0.00

0.00

LEN . .

10 .

RIFFLE

FISH/

ACRE

103.9

828.9

363.6

91.2

92.9

63.2

47.4

0.03

0.01

0.00

0.00

42.3

FISH/

SQ. M

0.03

0.01

0.20

0.09

0.02

0.02

0.02

0.01

0.00

510.1 358

MEAN

WEIGHT

(GM)

MEAN

LENGTH AREA/FISH (SQ.M)

(MM) WETTED RIFFLE POOL

95 PERCENT

LOWER

CONF. LIMITS

UPPER

128.4

177.4

24.4

18.3

0.05

0.02

0.07

0.45

0.62

0.16

0.18

0.25

0.07

1.61

2.22

0.59

0.07

0.10

0.62

0.86

POP.

25

Appe	ndix tal	le II (		SECT.			POP		/AR	95		CENT		MEAN	MEAN	ARFA/	FISH (S	O.M)
SECT	ON AGE			(M)		C2			N				Р.		(MM)		RIFFLE	
JUNE	4-13/79																	
ALL		2211.2	503.2	399	9	3		9	6.8		1.3		0.67	12.92	109.2	163.79	37.27 55.91	189.78
		F						1:					·	1.	: ":		·	
ALL	24-26/79 I	2269.1	420.1	384	6	. 1		7 .	0.4	. 5	5.9	8.5	0.83	9.51	96.6	315.15	58.35	256.81
	11				1	0		1	0.0	1	.0	1.0	1.00	15.20	115.0	2269.10	420.10	1849.00
SEP.	18-20/79					* *		:						42.4			che 13	-
ALL	11	2271.5	436.9	391	3	.1		5 ,	2.3	1	.5	7.5	0.67	19.27	124.7	504.78	97.09	407.69
JULY	22-24/80					* .												
ALL	0	2085.5	533.5	372	10	3	14	4	4.9	, 9	9.9	18.7	0.70	0.68	92.5	145.98	37.34	108.64
	II .			4	1	o		1 .	0.0		.0.			19.58	124.0	2085.50	533.50	
	111			:	. 2	.0	. :	2	0.0	.2	0.0	2.0	: 1.00	73.99	192.5	1042.75	266.75	776.00
	16-18/80									•								
ALL	0	2049.6	444.1	377	20	8	3	3	34.6		6	45.1	0.60	3.28		61.49	13.32	48.17
	11				3			3	0.0		0.0		1.00	37.99	156.0	683.20	148.03	535.17
					- 1		.:	• :					. :		1	1 - 1		
		FISH/	FISH	/ F	ISH/	FFLE FI	SH/	FISH/	POOL	ISH/		TTED	GM/	LE/	GM/	FFLE LB/	GM/	OOL LB/
SECTI	ON AGE	SQ. M	ACRE		Q. M	ACI		SQ. N		CRE			SQ. M		SQ. N		SQ. M	ACRE
JUNE	4-13/79				_		-			-								
ALL	1	0.01			0.03		9.80	0.01		32.0		89.8	0.04		0.18			
	11	0.00	16.	0	0.02	7	12.4	0.01	1	21.3	1	16.2	0.05	0.47	0.23	2.06	0.07	0.61
JULY	24-26/79 I	0.00	12.		0.02		9.4	0.00		15.8		68.5.	0.03	0.27	0.16	1.45		0.33
	iı	0.00			0.00		9.6	0.00		2.2				0.06				0.07
SEP.	18-20/79																e decide	
ALL	II	0.00	8.	0	0.01	4	11.7	0.00	) -	9.9	٠	86.7	0.04	0.34	0.20	1.77	0.05	0.42
JULY	22-24/80																	
ALL	0	0.01	27.	7	0.03	10	08.4	0.01	1	37.3		9.7	0.00	0.04	0.02	0.16	0.01	0.06
	I	0.00	1.	9	0.00		7.6	0.00		2.6	5	19.6	0.01	0.08	0.04	0.33	0.01	0.11
	111	0.00			0.00	1	5.2			5.2		48.0	0.07	0.63	0.28			
SEP.	16-18/80																	
ALL.	0	0.02			80.0		3.8	0.02		84.0		09.5	0.05	0.48	0.25			
	11	0.00	3. 5.		0.00		8.2	0.00		5.0 7.6		14.0	0.01	0.09	0.05			
															-			

SECTION	AGE	AREA (S	SQ.M)	SECT. LEN (M)	C1	C2	POP.		AR. N		PERCENT LIMIT		MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/	FISH (SO	O.M) POOL
JUNE 4-	13/79																
ALL	0	2211.2	503.2	399	1	1							0.16	25.5			
	I				7	. 2	10		2.8	6.		0.71	7.73	89.8	225.63	51.35	174.25
	III				. 0	1	. 6		0.6	4.	7 7.8	0.80	14.11	110.8	353.79	80.51	273.21
JULY 24	-26/79					,			.,		*	:					
ALL	0	2269.1	420.1	384	62	18	87		26.6	77.	1 97.7	0.71	0.67	40.7	25.97	4.81	21.10
	ī	2200.1		554	4	. 2	. 8		24.0	-1.				95.0	283.64	52.51	231.13
	II	,			3	. 1	5		2.3	1.				131.5	504.24	93.36	410.8
	III			· ·	2	0	2		0.0	2.					1134.55	210.05	924.50
SEP. 18	-20/79																
ALL	0	2271.5	436.9	391	27	10	43		32.3	31.	5 54.2	0.63	1.45	53.3	52.97	10.19	42.7
	I				10	1	11		0.2	10.				96.5	204.43	39.32	165.1
	11				1	0	-1		0.0	1,	0 1.0	1.00	25.82	140.0	2271.50	436.90	1834.6
	-																
		W	ETTED		RI	FFLE		•	POOL		WETTED	W	ETTED	RI	FFLE	P	OOL
SECTION	AGE	FISH/ SO. M	FISH ACRE		RI ISH/ Q. M	FFLE FISI ACR		FISH/	F	ISH/ CRE	WETTED TOTAL WT (GM)	GM/	LB/		LB/	GM/	LB/
	•	FISH/	FISH		ISH/	FIS		FISH/	F		TOTAL WI	GM/	LB/	GM/	LB/	GM/	LB/
SECTION JUNE 4-	•	FISH/	FISH		ISH/	FIS		FISH/	F		TOTAL WI	GM/	LB/	GM/	LB/	GM/	LB/
JUNE 4-	13/79 O I	FISH/ SQ. M	FISH	S	ISH/	FISI		FISH/	F A		TOTAL WI	GM/	M ACRE	GM/	LB/	GM/ SQ. M	LB/ ACRI
JUNE 4-	13/79 0 I II	FISH/ SQ. M	FISH	9	ISH/	FISI ACRI	E	FISH/ SQ. M	F A	CRE	(GM)	GM/ SO.	M ACRE	GM/ SQ. N	LB/ ACRE	GM/ SQ. M	LB/ ACR
JUNE 4-	13/79 O I	FISH/ SQ. M	FISH ACRE	9	1SH/ Q. M	FISI ACRI	8.8	FISH/ SO. M	F A	23.2	TOTAL WT (GM)	GM/ SO.	M ACRE	GM/ SQ. N	LB/ ACRE	GM/ SQ. M	LB/ ACR
JUNE 4-	13/79 0 I II III	FISH/ SQ. M	FISH ACRE	9 4	0.02 0.01	FISI ACRI	8.8 0.3	0.01 0.00	FA	23.2 14.8	75.8 88.2	0.0 0.0	M ACRE	GM/ SQ. N	LB/ ACRE	GM/ SQ. M O.04 O.05	ACRI
JUNE 4-	13/79 0 I II III -26/79	0.00 0.00	17. 11.	9 4	0.02 0.01	FISI ACRI	8.8 0.3	0.01 0.00	F A	23.2 14.8	75.8 88.2	0.0 0.0	M ACRE 3 0.31 4 0.36	GM/ SQ. N O. 15 O. 16	LB/ ACRE	GM/ SQ. M 0.04 0.05	0.46 0.46
JUNE 4-	13/79 0 I II III -26/79 0 I	0.00 0.00 0.00	17. 11.	9 4 8 3	0.02 0.01	FISI ACRI	8.8 0.3	0.01 0.00 0.05 0.00	F A	23.2 14.8 91.2	75.8 88.2 58.9 78.0	0.0 0.0	B LB/ ACRE 3 0.31 4 0.36 3 0.23 3 0.31	O. 15 O. 16 O. 16	LB/ ACRE 1.34 1.56	GM/ SQ. M 0.04 0.05	0.40 0.40 0.30
JUNE 4-	13/79 0 1 11 111 -26/79 0 1 11	0.00 0.00 0.00	17. 11.	9 4 8 3 0	0.02 0.01 0.21 0.02 0.01	71 56 84 77 4:	8.8 0.3	0.01 0.00 0.05 0.00	F A	23.2 14.8 91.2 17.5 9.8	75.8 88.2 58.9 78.0 104.2	0.0 0.0 0.0	B LB/ M ACRE 3 0.31 4 0.36 3 0.23 3 0.31 5 0.41	GM/ SQ. M O. 15 O. 16 O. 15 O. 15 O. 25	LB/ ACRE 1.34 1.56 1.25 1.66 2.21	GM/ SQ. M O.04 O.05	0.46 0.46 0.36 0.56
JUNE 4-	13/79 0 I II III -26/79 0 I	0.00 0.00 0.00	17. 11.	9 4 8 3 0	0.02 0.01	71 56 84 77 4:	8.8 0.3	0.01 0.00 0.05 0.00	F A	23.2 14.8 91.2	75.8 88.2 58.9 78.0	0.0 0.0	B LB/ M ACRE 3 0.31 4 0.36 3 0.23 3 0.31 5 0.41	O. 15 O. 16 O. 16	LB/ ACRE 1.34 1.56 1.25 1.66 2.21	GM/ SQ. M O.04 O.05	0.46 0.46 0.36 0.56
JUNE 4-	13/79 0 I II III -26/79 0 I III	0.00 0.00 0.00	17. 11.	9 4 8 3 0	0.02 0.01 0.21 0.02 0.01	71 56 84 77 4:	8.8 0.3	0.01 0.00 0.05 0.00	F A	23.2 14.8 91.2 17.5 9.8	75.8 88.2 58.9 78.0 104.2	0.0 0.0 0.0	B LB/ M ACRE 3 0.31 4 0.36 3 0.23 3 0.31 5 0.41	GM/ SQ. M O. 15 O. 16 O. 15 O. 15 O. 25	LB/ ACRE 1.34 1.56 1.25 1.66 2.21	GM/ SQ. M O.04 O.05	0.4 0.4 0.4
JUNE 4- ALL JULY 24	13/79 0 I II III -26/79 0 I III	0.00 0.00 0.00	17. 11.	9 4 8 3 0 6	0.02 0.01 0.21 0.02 0.01	7156 84 77 41	8.8 0.3	0.01 0.00 0.05 0.00	F A	23.2 14.8 91.2 17.5 9.8	75.8 88.2 58.9 78.0 104.2	0.0 0.0 0.0	B/ ACRE 3 0.31 4 0.36 3 0.31 5 0.41 6 0.49	GM/ SQ. M O. 15 O. 16 O. 15 O. 15 O. 25	LB/ ACRE 1.34 1.56 1.25 1.66 2.21 2.66	GM/ SQ. M 0.04 0.05	0.44 0.44 0.31 0.50
JUNE 4-ALL JULY 24	13/79 0 I II 111 -26/79 0 I II III -20/79	0.00 0.00 0.00	17. 11. 155. 14. 8. 3.	9 4 8 3 0 6 6 4	0.02 0.01 0.21 0.02 0.01 0.00	7/1 56 84 77 44	8.8 0.3 1.6 7.1 3.4 9.3	0.01 0.00 0.05 0.00 0.00	F A	23.2 14.8 91.2 17.5 9.8 4.4	75.8 88.2 58.9 78.0 104.2 125.4	0.0 0.0 0.0 0.0 0.0	B LB/ ACRE  3 0.31 4 0.36 3 0.23 3 0.31 5 0.41 6 0.49 3 0.24	GM/ SQ. M O. 15 O. 16 O. 18 O. 25 O. 30	LB/ ACRE 1.34 1.56 1.25 1.66 2.21 2.66	GM/ SQ. M O.04 O.05 O.03 O.04 O.06 O.07	0.44 0.44 0.34 0.50

SECTION AGE	AREA (		SECT: LEN (M)			POP.	VAR.				MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SO	
## ¥ 00 04/00			-				•*		1.		*		* .	K	
JULY 22-24/80 ALL O I II	2085.5	533.5	372	12 10	4 4 2	18	9. 17.	12.0	24.0 25.0	0.67	8.53	32.7 94.1 128.3	115.86 125.13	29.64 32.01	86.22 93.12
SEP. 16-18/80		***											:		
ALL O		444.1	377	23 14 6 1	3	26 20 7	5.	6 14.8	: 24.4	0.71			104 .57	16.79 22.66 61.68	81.9
		VETTED	;	RIF	FLE		P00	<u>,</u>	WETTED	WE	TED	RI	FFLE	. Pi	OOL
SECTION AGE	SQ. I	. FISH	1/ F	ISH/	FISH		FISH/	FISH/ T	DTAL WT			GM/ SQ. M	LB/	GM/ SQ. M	LB/
	SQ. I	FISH A ACRE	1/ F	ISH/	FISH		FISH/	FISH/ T	DTAL WT	GM/	LB/	GM/	LB/		
JULY 22-24/80 ALL O I	SQ. I	FISH ACRE	9	ISH/	FISH	.5	FISH/	FISH/ T	OTAL WT (GM)	GM/	LB/ ACRE	GM/ SQ. M	ACRE	50. M	ACRI
JULY 22-24/80 ALL 0 I	0.0	FISH ACRE	9	0:03	FISH ACRE	.5	FISH/ SQ. M	FISH/ TACRE	OTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	ACRE	50. M	0.0

SECTION	AGE	AREA (		SECT LEN (M)		C2	POP	. VA			ERCENT LIMITS UPPER	p	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ	M) POOL
	<u> </u>				÷ .						* - , * .			- /	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
JUNE 25-															4100	0.40	180
11	ALL	453.9	27.3	69	126	59	237		7.4	191.9			2.30	57.0	1.92	0.12	6.98
III	ALL	520.9	55.3	108	- 40	16	67		9.1.	50.0		0.60	6.59	80.9	7.81	1.83	8.00
IV.	ALL	240.8	44.9	33	. 14	6	25		4.5	12.8		0.57	6.15	80.9	8.41	2.85	5.56
VI	ALL	379.4	128.5	59	19	11	45		9.9	9.4			5.13		4.27	1.30	2.97
VIII	ALL	336.3	102.4	71	54	17	79	. 3	1.9	67.5	90-1	0.69	5.13	75.6	. 9.27	1.30	2.01
ALL	ALL	1931.3	358.4	340	253	109	445	64	0.3	393.9	495.1	0.57	4.08	67.7	4.34	0.81	3.54
AUG. 7-9	/73													**	1.74		
II.	ALL	338.8	25.4	63	149	70	281	61	1.7	231.6	330.5	0.53	2.42	58.4	1.21	0.09	1.12
III	ALL	310.1	9.6	82	22	6	30		7.4	24.8			8.79	86.4	10.25	0.32	9.93
IV	ALL	218.9	32.8	34	7	4	16		6.5	-4:3			6.39	79.5	13.40	2.01	11.39
VI	ALL	246.3	32.2	52	17	8	32		0.5	15.3			6.77	82.6	7.67	1.00	6.67
VIII	ALL	190.1	49.3	52	. 16	7 .	28		4.0	15,2			5.82	79.5	6.68	1.73	4.95
ALL	ALL	1304.2	149.3	283	211	95	384	67	9.0	331.7	435.9	0.55	3.75	65.3	3.40	0.39	3.01
			ETTED		DT	FFLE			OOL	**	WETTED	WE	TTED	PT	FFLE	POI	01
		FISH/		1/ 1	FISH/	FIS	H/	FISH/			OTAL WT	GM/	LB/	GM/	LB/	GM/	LB/
SECTION	AGE	SQ. M			5Q. M	ACR				CRE		50. M		50. M	ACRE	_ SQ. M	ACRE
													-			19,1	
-	00/70																
JUNE 25-			0440			2540				47 0	ma4 is	4 00	40.70	40.04	477 64	4 00	44 28
11.	ALL	0.52			8.68	3512		0.56		47.9		1.20		19.94			
II. III	ALL .	0.13	517.	9	1.21	487	B.8	0.14	5	79.5	439.5	0.84	7.53	7.95	70.89	0.94	8.42
II. III	ALL ALL	0.13	517. 411.	9	0.55	487	B.8 B.3	0.14	5	79.5	439.5 150.7	0.84	7.53	7.95	70.89	0.94	6.86
II III VI	ALL ALL ALL ALL	0.13 0.10 0.12 0.23	517. 411. 481.	9 8 3	1.21	487	B.8 B.3	0.14	5 7	79.5	439.5	0.84	7.53 5.58 6.91	7.95	70.89 29.94 20.40	0.94 0.77 1.17	8.42 6.86 10.45
VIII VI VI	ALL ALL ALL	0.13 0.10 0.12 0.23	517. 411. 481. 948.	9 8 3 4	1.21 0.55 0.35	487 220 142	B.8 B.3 1.2 4.7	0.14 0.13 0.18	5 7 13	79.5 06.1 27.9	439.5 150.7 293.9 404.5	0.84 0.63 0.77 1.20	7.53 5.58 6.91	7.95 3.36 2.29 3.95	70.89 29.94 20.40 35.23	0.94 0.77 1.17 1.73	8.42 6.86 10.45 15.43
II III IV VI VIII	ALL ALL ALL ALL	0. 13 0. 10 0. 12 0. 23	517. 411. 481. 948.	9 8 3 4	1.21 0.55 0.35 0.77	487 220 142 311	B.8 B.3 1.2 4.7	0.14 0.13 0.18 0.34	5 7 13	79.5 06.1 27.9 63.6	439.5 150.7 293.9 404.5	0.84 0.63 0.77 1.20	7.53 5.58 6.91 10.73	7.95 3.36 2.29 3.95	70.89 29.94 20.40 35.23	0.94 0.77 1.17 1.73	8.42 6.86 10.45 15.43
II III IV VI VIII ALL AUG. 7-9	ALL ALL ALL ALL ALL	0.13 0.10 0.12 0.23	517. 411. 481. 948.	9 8 3 4	1.21 0.55 0.35 0.77 1.24	487 220 142 311 501	B.8 B.3 1.2 4.7	0.14 0.13 0.18 0.34	5 7 13	79.5 06.1 27.9 63.6	439.5 150.7 293.9 404.5	0.84 0.63 0.77 1.20	7.53 5.58 6.91 10.73 8.38	7.95 3.36 2.29 3.95 5.06	70.89 29.94 20.40 35.23 45.13	0.94 0.77 1.17 1.73	8.42 6.86 10.45 15.43
II III IV VI VIII ALL AUG. 7-9	ALL ALL ALL ALL ALL /73 ALL	0.13 0.10 0.12 0.23 0.23	517. 411. 481. 948. 931.	9 8 3 4 5 5	1.21 0.55 0.35 0.77 1.24	487 220 142 311 501	8.8 8.3 1.2 4.7 9.3	0.14 0.13 0.18 0.34 0.28	5 5 7 13	79.5 06.1 27.9 63.6 43.7	439.5 150.7 293.9 404.5 1813.5	0.84 0.63 0.77 1.20 0.94	7.53 5.58 6.91 10.73 8.38	7.95 3.36 2.29 3.95 5.06	70.89 29.94 20.40 35.23 45.13	0.94 0.77 1.17 1.73 1.15	8.42 6.86 10.45 15.43 10.28
II III IV VI VIII ALL AUG. 7-9	ALL ALL ALL ALL ALL	0.13 0.10 0.12 0.23	517. 411. 481. 948. 931.	9 8 3 4 5 9 8	1.21 0.55 0.35 0.77 1.24	487 220 142 311 501 4477 1275	8.8 8.3 1.2 4.7 9.3	0.14 0.13 0.18 0.34 0.28	5 5 7 13 11	79.5 06.1 27.9 63.6 43.7 28.9	439.5 150.7 293.9 404.5 1813.5	0.84 0.63 0.77 1.20 0.94 2.00 0.86	7.53 5.58 6.91 10.73 8.38 17.88 7.65	7.95 3.36 2.29 3.95 5.06	70.89 29.94 20.40 35.23 45.13	0.94 0.77 1.17 1.73 1.15	8.42 6.86 10.45 15.43 10.28
III III IV VI VI ALL AUG. 7-9	ALL ALL ALL ALL ALL /73 ALL ALL	0.13 0.10 0.12 0.23 0.23	517. 411. 481. 948. 931. 3356. 394. 302.	9 8 3 4 5 9 8	1.21 0.55 0.35 0.77 1.24 11.06 3.15 0.50	487 220 142 311 501 4477 1275 201	8.8 8.3 1.2 4.7 9.3	0.14 0.13 0.18 0.34 0.28 0.90 0.10 0.09	5 5 7 13 11 36 4 3	79.5 06.1 27.9 63.6 43.7 28.9 07.4 55.2	439.5 150.7 293.9 404.5 1813.5 679.0 266.0 104.4	0.84 0.63 0.77 1.20 0.84 2.00 0.86 0.48	7.53 5.58 6.91 10.73 8.38 17.88 7.65 4.26	7.95 3.36 2.29 3.95 5.06 26.73 27.71 3.18	70.89 29.94 20.40 35.23 45.13 238.44 247.14 28.40	0.94 0.77 1.17 1.73 1.15 2.17 0.89 0.56	8.42 6.86 10.45 15.43 10.28 19.32 7.90 5.01
11.	ALL ALL ALL ALL ALL /73 ALL ALL	0.13 0.10 0.12 0.23 0.23	517. 411. 481. 948. 931. 3356. 394. 302. 527.	9 8 3 4 5 9 8 0 6	1.21 0.55 0.35 0.77 1.24	487 220 142 311 501 4477 1275	8.8 8.3 1.2 4.7 9.3 6.0 2.3 5.3	0.14 0.13 0.18 0.34 0.28	55 77 13 11 36 4 3 6	79.5 06.1 27.9 63.6 43.7 28.9	439.5 150.7 293.9 404.5 1813.5	0.84 0.63 0.77 1.20 0.94 2.00 0.86	7.53 5.58 6.91 10.73 8.38 17.88 7.65	7.95 3.36 2.29 3.95 5.06	70.89 29.94 20.40 35.23 45.13 238.44 247.14 28.40 60.25	0.94 0.77 1.17 1.73 1.15 2.17 0.89 0.56 1.02	11.38 8.42 6.86 10.45 15.43 10.28 19.32 7.90 5.01 9.06 10.48

CECTION		AREA (S	SQ.M)	LEN	C2	POP.	VAR		PERCENT LIMITS		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	.M)
		WEITED .	KIFFEE	(m) . C	92	* **				1					
JULY 23-						000	1040540	0 - 1200	0 3149.2	0.10	2.47	60.5	0.56	0.05	0.5
11	ALL	515.7	50.2		6 86					0.67	3.91	68.7	16.91	3.43	13.4
III	ALL	304.3	61.7		12 4	. 10		.0 12.				73.2	62.47	13.89	48.5
IV	ALL	281.1	62.5	35	3 1	. 5		.3 .1.		0.67	7.45	82.1	7.56	2.24	5.3
V	ALL	283.5	84:1		15 9	38				0.40				3.68	13.3
VI	ALL	364.2	78.6	52	8 5	21				0.38	4.19	73.0	17.07		
VIII	ALL	449.2	147.2	80 . 2	23 16	. 76	2199	.718.	2 169.4	0.30	6.75	80.5	5.94	1.95	4.0
ALL	ALL	2198.0	484.3	343 . 15	121	. 685	59731	.7 195	9 1173.5	0.23	3.70	66.4	3.21	0.71	2.5
AUG. 16/	74									- :					
11.	ALL	380.8	8.9	71 . !	9 25	102	136	.8 79	0 125.8	0.58	2.03	56.7	3.72	0.09	3.6
SEP. 16-	19/74														
II	ALL	375.3	21.3	70 7	77 64	456	119891	.0 -236	4:1148.6	0.17	2.48	60.2	0.82	0.05	0.
. 111	ALL	218.3	28.3	63 2	22 .15	. 69	1678	.2 -12	8 151.1	0.32	4.48	70.2	3.16	0.41	2.
V	ALL	247.6	18.7	34	6 1	7	0	.4 5.	9 8.5	0.83	5.27	78.9	34.39	2.60	31.
v :	ALL	191.6	58.9	45	18 12	54	1080	.0 -11	7 119.7	0.33	5.18	78.6	3.55	1.09	2.
/1	ALL'	215.9	13.3	56	12 2	14	. 0	.8 12	6 16.2	0.83	5.72	81.9	14.99	0.92	14.
1111	ALL	172.7	82.4	55	14 3	18	2	.0 15	0 20.7	0.79	5.03	78 . 5	9.69	4.62	5.0
LL .	ALL	1421.4	222.9	323 14	9 97	427	7028	.1 259	3 594.6	0.35	3.55	67.0	3.33	0.52	2.1
		W	ETTED .		RIFFLE	• .	PO	OL	WETTED	. WE	TTED	RI	FFLE	PO	OL.
	0.5	FISH/	FISH	/ FISH	4/ FI	SH/ · ·	FISH/	FISH/	TOTAL WT	· GM/	LB/	GM/	LB/	GM/	LB,
SECTION	AGE	SQ. M	ACRE			RE	SQ. M	ACRE .		50. M	ACRE	SQ. M	ACRE	SQ. M	ACI
JULY 23-															
UULY 23"	25/14									*				• ;	
II	25/74 ALL	1.79	7232.	3 .18.3	6 742	97.1	1.98	8012.3	2280.5	4.42	39.44	45.43	405.21	. ;	43.
11	ALL		7232.1			97.1	1.98	8012.3	2280.5	4.42		45.43 1.14	405.21	4.90	
111	ALL	0.06	239.	4 0.2	29. 11	80.6	. 0.07	300.3	70:4					4.90 0.29	43.
II III	ALL ALL	0.06	239. 64.	4 0.2 B 0.0	29 11	80.6	0.07	300.3 83.3	70:4	0.23	2.06	1.14	10.18	4.90 0.29 0.10	43. 2. 0.
III IV	ALL ALL ALL	0.06 0.02 0.13	239.4 64.1 535.3	4 0.2 8 0.0 3 0.4	29 11 07 2 15 18	80.6 91.4 04.5	0.07 0.02 0.19	300.3 83.3 761.1	70.4 21.5 279.6	0.23	2.06 0.68 8.80	1.14 0.34 3.32	10.18 3.07 29.65	4.90 0.29 0.10 1.40	43. 2. 0. 12.
II IV V	ALL ALL	0.06	239. 64.	8 0.6 3 0.4 1 0.5	29 11 27 2 15 18 27 10	80.6	0.07	300.3 83.3	70:4	0.23	2.06 0.68 8.80 2.19	1.14	10.18 3.07 29.65 10.15	4.90 0.29 0.10 1.40 0.31	43. 2. 0. 12.
II IV VI	ALL ALL ALL ALL ALL	0.06 0.02 0.13 0.06 0.17	239.6 64.6 535.3 237. 680.6	8 0.6 3 0.4 1 0.3 8 0.5	29 11 07 2 15 18 27 10	80.6 91.4 04.5 98.4 77.7	0.07 0.02 0.19 0.07 0.25	300.3 83.3 761.1 302.3 1012.7	70.4 21.5 279.6 89.4 510.4	0.23 0.08 0.99 0.25 1.14	2.06 0.68 8.80 2.19 10.14	1.14 0.34 3.32 1.14 3.47	10.18 3.07 29.65 10.15 30.93	4.90 0.29 0.10 1.40 0.31 1.69	43. 2. 0. 12. 2. 15.
II III IV VI VIII	ALL ALL ALL ALL ALL ALL	0.06 0.02 0.13 0.06	239.4 64.1 535.3 237.	8 0.6 3 0.4 1 0.3 8 0.5	29 11 07 2 15 18 27 10	80.6 91.4 04.5 98.4	0.07 0.02 0.19 0.07	300.3 83.3 761.1 302.3	70.4 21.5 279.6 89.4	0.23 0.08 0.99 0.25	2.06 0.68 8.80 2.19 10.14	1.14 0.34 3.32 1.14	10.18 3.07 29.65 10.15 30.93	4.90 0.29 0.10 1.40 0.31 1.69	43. 2. 0. 12. 2.
11 111 17 17 17 17 17 11 11 11 11 11 11	ALL ALL ALL ALL ALL ALL	0.06 0.02 0.13 0.06 0.17	239.4 64.1 535.2 237. 680.1	4 0.2 8 0.6 9 0.4 1 0.2 8 0.5	29 11 27 2 45 18 27 10 51 20 41 57	80.6 91.4 004.5 98.4 77.7	0.07 0.02 0.19 0.07 0.25	300.3 83.3 761.1 302.3 1012.7	70.4 21.5 279.6 89.4 510.4	0.23 0.08 0.99 0.25 1.14	2.06 0.68 8.80 2.19 10.14	1.14 0.34 3.32 1.14 3.47	10.18 3.07 29.65 10.15 30.93 46.67	4.90 0.29 0.10 1.40 0.31 1.69	43. 2. 0. 12. 2. 15.
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ALL ALL ALL ALL ALL ALL ALL	0.06 0.02 0.13 0.06 0.17	239.6 64.6 535.3 237. 680.6	4 0.2 8 0.6 9 0.4 1 0.2 8 0.5	29 11 27 2 45 18 27 10 51 20 41 57	80.6 91.4 04.5 98.4 77.7	0.07 0.02 0.19 0.07 0.25	300.3 83.3 761.1 302.3 1012.7	70.4 21.5 279.6 89.4 510.4	0.23 0.08 0.99 0.25 1.14	2.06 0.68 8.80 2.19 10.14	1.14 0.34 3.32 1.14 3.47	10.18 3.07 29.65 10.15 30.93 46.67	4.90 0.29 0.10 1.40 0.31 1.69	43. 2. 0. 12. 2. 15.
III III IV V VI VIIII ALL AUG. 16/	ALL ALL ALL ALL ALL ALL ALL ALL 19/74	0.06 0.02 0.13 0.06 0.17 0.31	239. 64.1 535. 237. 680.1 1260.	4 0.2 8 0.6 3 0.4 1 0.2 8 0.8	29 11 27 2 15 18 27 10 51 20 41 57 50 465	80.6 91.4 004.5 98.4 77.7	0.07 0.02 0.19 0.07 0.25	300.3 83.3 761.1 302.3 1012.7 1616.9	70.4 21.5 279.6 89.4 510.4 2534.1	0.23 0.08 0.99 0.25 1.14 1.15	2.06 0.68 8.80 2.19 10.14 10.26	1.14 0.34 3.32 1.14 3.47 5.23	10. 18 3.07 29.65 10.15 30.93 46.67	4.90 0.29 0.10 1.40 0.31 1.69	43. 2. 0. 12. 2. 15.
III III IV // /IIII ALL AUG. 16/ II	ALL	0.06 0.02 0.13 0.06 0.17	239.4 64.1 535.2 237. 680.1	4 0.2 8 0.6 3 0.4 1 0.2 8 0.8	29 11 27 2 15 18 27 10 51 20 41 57 50 465	80.6 91.4 004.5 98.4 77.7	0.07 0.02 0.19 0.07 0.25	300.3 83.3 761.1 302.3 1012.7	70.4 21.5 279.6 89.4 510.4	0.23 0.08 0.99 0.25 1.14	2.06 0.68 8.80 2.19 10.14 10.28 4.88	1.14 0.34 3.32 1.14 3.47 5.23 23.40	10.18 3.07 29.65 10.15 30.93 46.67 208.77	4.90 0.29 0.10 1.40 0.31 1.69 1.48	43. 2. 0. 12. 2. 15. 13.
III III IV // /IIII ALL AUG. 16/ II	ALL ALL ALL ALL ALL ALL ALL ALL 19/74	0.06 0.02 0.13 0.06 0.17 0.31	239. 64.1 535. 237. 680.1 1260.	4 0.2 8 0.6 3 0.4 1 0.2 8 0.5 7 1.4	29 11 27 2 45 18 27 10 51 20 41 57 50 465 41 866	80.6 81.4 04.5 98.4 77.7 21.6	0.07 0.02 0.19 0.07 0.25 . 0.40	300.3 83.3 761.1 302.3 1012.7 1616.9	70.4 21.5 279.6 89.4 510.4 2534.1	0.23 0.08 0.99 0.25 1.14 1.15	2.06 0.68 8.80 2.19 10.14 10.28 4.88	1.14 0.34 3.32 1.14 3.47 5.23	10. 18 3.07 29.65 10.15 30.93 46.67	4.90 0.29 0.10 1.40 0.31 1.69 1.48 0.56	43. 2. 0. 12. 2. 15. 13.
III III III III III III III III III II	ALL	0.06 0.02 0.13 0.06 0.17 0.31	239. 64.1 535. 237. 680.1 1260.	4 0.2 8 0.6 1 0.2 8 0.8 7 1.4 1 11.5 0 21.4 8 2.4	29 11 27 2 45 18 27 10 51 20 41 57 50 465 41 866 44 98	80.6 81.4 04.5 98.4 77.7 21.6	0.07 0.02 0.19 0.07 0.25 .0.40	300.3 83.3 761.1 302.3 1012.7 1616.9	70.4 21.5 27.6 89.4 510.4 2534.1 206.3	0.23 0.08 0.99 0.25 1.14 1.15	2.06 0.68 8.80 2.19 10.14 10.28 4.88	1.14 0.34 3.32 1.14 3.47 5.23 23.40	10.18 3.07 29.65 10.15 30.93 46.67 208.77	4.90 0.29 0.10 1.40 0.31 1.69 1.48 0.56	43. 2. 0. 12. 2. 15. 13.
III III IV III III III III III III III	ALL	0.06 0.02 0.13 0.06 0.17 0.31	239. 64. 535. 237. 680. 1260. 1088.	4 0.2 8 0.6 1 0.2 8 0.8 7 1.4 1 11.5 0 21.4 8 2.4 7 0.3	29 11 27 2 45 18 27 10 51 20 51 57 41 57 46 5 46 5 46 98 48 98 48 98	80.6 91.4 04.5 98.4 177.7 21.6 55.2 54.6 87.7 158.2	0.07 0.02 0.19 0.07 0.25 .0.40	300.3 83.3 761.1 302.3 1012.7 1616.9 1114.1	70.4 21.5 279.6 89.4 510.4 2534.1 208.3	0.23 0.08 0.99 0.25 1.14 1.15 0.55	2.06 0.68 8.80 2.19 10.14 10.26 4.88 26.86 12.65 1.37	1.14 0.34 3.32 1.14 3.47 5.23 23.40	10.18 3.07 29.65 10.15 30.93 46.67 208.77 473.34 97.61	4.90 0.29 0.10 1.40 0.31 1.69 1.48 0.56	43. 2. 0. 12. 2. 15. 13.
III III IV // // // // // // // // // // // // //	ALL	0.06 0.02 0.13 0.06 0.17 0.31 0.27	239 . 64 . 535	4 0.2 8 0.0 1 0.2 1 1.4 1 11.5 0 21.4 8 2.4 7 0.5 0 0.5	29 11 77 2 15 18 15 18 27 10 51 20 11 57 50 465 41 866 44 98 39 15 39 37	80.6 91.4 04.5 198.4 177.7 21.6 55.2 54.6 87.7 158.2 10.3	0.07 0.02 0.19 0.07 0.25 .0.40	300.3 83.3 761.1 302.3 1012.7 1616.9 1114.1 5214.0 1472.7 127.3 1646.9	70.4 21.5 279.6 89.4 510.4 2534.1 208.3 1130.3 309.7 37.9 279.6	0.23 0.08 0.99 0.25 1.14 1.15 0.55 3.01 1.42 0.15 1.46	2.06 0.68 8.80 2.19 10.14 10.26 4.88 26.86 12.65 1.37 13.02	1.14 0.34 3.32 1.14 3.47 5.23 23.40 53.07 10.94 2.03 4.75	10.18 3.07 29.65 10.15 30.93 46.67 208.77 473.34 97.61 18.10 42.35	4.90 0.29 0.10 1.40 0.31 1.69 1.48 0.56 3.19 1.63 0.17 2.11	43. 2. 0. 12. 2. 15. 13.
II III IV // I/III ALL AUG. 16/	ALL	0.06 0.02 0.13 0.06 0.17 0.31	239 . 64	4 0.2 8 0.0 1 0.2 8 0.1 1 11.5 0 21.4 8 2.4 7 0.3 9 1.0	29 11 77 2 15 18 27 10 51 20 41 57 50 465 41 866 44 98 39 15 39 15 30 43	80.6 91.4 04.5 98.4 177.7 21.6 55.2 54.6 87.7 158.2	0.07 0.02 0.19 0.07 0.25 .0.40	300.3 83.3 761.1 302.3 1012.7 1616.9 1114.1 5214.0 1472.7 127.3	70.4 21.5 279.6 89.4 510.4 2534.1 208.3 1130.3 309.7 37.9 279.6	0.23 0.08 0.99 0.25 1.14 1.15 0.55	2.06 0.68 8.80 2.19 10.14 10.28 4.88 26.86 12.65 1.37 13.02 3.41	1.14 0.34 3.32 1.14 3.47 5.23 23.40 53.07 10.94 2.03	10.18 3.07 29.65 10.15 30.93 46.67 208.77 473.34 97.61 18.10 42.35	4.90 0.29 0.10 1.40 0.31 1.69 1.48 0.56 3.19 1.63 0.17 7.2.11	43. 2. 0. 12. 2. 15. 13.

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	Capt	B IA (C	ont'd)	SECT.						. 95	PERCENT		MEAN	MEAN			
SECTION	AGE	AREA (		LEN (N)	Ci	C2	POP.		VAR.	LOWE			WEIGHT (GM)	(MM)		FISH (SQ RIFFLE	.N) POO
MAY 20-2	2/75		-	•	-		-	-					+ 1 N.	-		- 7	1
ALL	ALL	2241.4	746.7	335	83	99							2.04	57.9	** *		
JULY 21-	24/75																
II	ALL	371.9	39.5	78	117	55	221		482.0	176.	9 264.7.	0.53	3.01	63.3	1.68.	0.18	1.5
III	ALL	253.4	17.1	57	41	3	15		. 3.7	11.	3 19.0	0.73	5.83	83,1	16.75	1.13	15.6
IV	ALL	217.8	32.3	46	8	3	13		10.1			0.63	4.13	73.1	17.02	2.52	14.4
v	ALL	259.8	42.0	50	17	7	. 29		340			0.59	5.69	82.1	8:99	1.45	7.5
VI	ALL	250.2	19.3	52	7	5	25	•	918.8			0.29	6.09	85.7	10.21	0.79	9.4
IIIV	ALL	177.9	. 87.6	51	14	1.	15		0.	14.	4 15.7	0.93	.5.10	78.8	11.80	5.81	5.8
ALL	ALL	1531.0	237.8	334	174	74.	303		411.2	262	2 343:3	0.57	3.76	68.7	5.06	0.79	.4.2
SEP. 16-	18/75											: .				**	
II	ALL	394.1	27.4	73	82	39	156		362.0	118	3. 194.4	0.52	3.30	67.2	2.52	0.18	2.3
III .	ALL	246.2	11.9	55	13	5 .	21		18.6			0.62	6.73	84.9	11.65	0.56	11.0
IV	ALL	292.0	59.3	45	. 6	2	9		4.5			0.67	7.91	90.5	32.44	6.59	25.8
V	ALL .	259.0	49.7	50	18	6	27		13.5			0.67		86.6	9.59	1.84	7.
VI .	ALL	265.0	21.8	52	9	5	20		110.7	-0.	8 41,3	0.44	8.44	90.1	13.09	1.08	12.0
IFIV	ALL	183.4	83.0	52	28	7	37		6.5	32.	1- 42.6	0.75	6.24	81.5	4.91	2.22	2.
ILL	ALL	1639.7	253.1	327	156	64	265		306.	229	5 299.5	0.59	4.99	75.3	6.20	0.96	5.
			ETTED		PI	FFLE			POOL		WETTED	WE	TTED	RII	FFLE	PO	OL:
SECTION	AGE	FISH/	FISH	/ F	ISH/	FISH		FIS	4/	FISH/	TOTAL WT	GM/	LB/	GM/	LB/	GM/	LB/
SECITON				2	Q. M	ACRE		SQ.	246	ACRE	(GM)	SQ. M	-ACRE	20. M	AURE	30. M	ACR
	-	SQ. M	ACRE										,				
	2/75	50. M	ACRE	-				-			*	* .	,				
		50. M	ACRE					-			*						
MAY 20-2 ALL JULY 21-	2/75 ALL	50. M	ACRE	٠,													
ALL	2/75 ALL	50. M	2402.	6	5.59	2262	1.2	. 0.0	66 2	2688.1	664.9	1.79	15.95	16.83	150, 14	2.00	17.1
ALL JULY 21- II III	2/75 ALL 24/75 ALL ALL	0.59	2402. 241.	6	0.88	3579	9.6	0.0	96	259.0	88.2	0.35	3.10	16.83 5.16	150, 14 45.99	0.37	3.
JULY 21- II III IV	2/75 ALL 24/75 ALL ALL ALL	0.59 0.06 0.06	2402. 241. 237.	6 8	0.88	3579 1603	3.8		96	259.0 279.3	88.2 52.9	0.35	3.10	16.83 5.16 1.64	150, 14 45, 98 14, 61	0.37	3.
ALL JULY 21- II III IV V	2/75 ALL 24/75 ALL ALL ALL ALL	0.59 0.06 0.06 0.11	2402. 241. 237. 450.	6 8 2	0.88 0.40 0.69	3579 1603 2784	9.6 3.8 1.7	0.0	06 07 13	259.0 279.3 537.0	88.2 52.9 164.5	0.35 0.24 0.63	3.10 2.17 5.65	16.83 5.16 1.64 3.92	150, 14 45.99 14.61 34.93	0.37 0.29 0.76	3. 2. 6.
NLL JULY 21- II II IV	2/75 ALL 24/75 ALL ALL ALL ALL	0.59 0.06 0.06 0.11	2402. 241. 237. 450. 396.	6 8 2 3	0.88 0.40 0.69 1.27	3579 1603 2784 5137	9.6 3.8 1.7	0.0	06 07 13	259.0 279.3 537.0 429.4	88.2 52.9 164.5 149.3	0.35 0.24 0.63 0.60	3.10 2.17 5.65 5.32	16.83 5.16 1.64 3.92 7.74	150, 14 45, 98 14, 61 34, 93 69, 00	0.37 0.29 0.76 0.65	3. 2. 6. 5.
ALL JULY 21- II III IV /	2/75 ALL 24/75 ALL ALL ALL ALL	0.59 0.06 0.06 0.11	2402. 241. 237. 450.	6 8 2 3	0.88 0.40 0.69	3579 1603 2784	9.6 3.8 1.7	0.0	06 07 13	259.0 279.3 537.0	88.2 52.9 164.5	0.35 0.24 0.63	3.10 2.17 5.65	16.83 5.16 1.64 3.92	150, 14 45.99 14.61 34.93	0.37 0.29 0.76 0.65	3. 2. 6. 5.
ALL JULY 21-	2/75 ALL 24/75 ALL ALL ALL ALL	0.59 0.06 0.06 0.11	2402. 241. 237. 450. 396.	6 8 2 3	0.88 0.40 0.69 1.27	3579 1603 2784 5137	9.6 3.8 1.7 7.4 6.5	0.0	06 07 13 11	259.0 279.3 537.0 429.4	88.2 52.9 164.5 149.3	0.35 0.24 0.63 0.60	3.10 2.17 5.65 5.32	16.83 5.16 1.64 3.92 7.74	150, 14 45, 98 14, 61 34, 93 69, 00	0.37 0.29 0.76 0.65 0.85	3. 2. 6. 5.
ALL JULY 21- II III IV V VI VIII	2/75 ALL 24/75 ALL ALL ALL ALL ALL ALL ALL	0.59 0.06 0.06 0.11 0.10	2402. 241. 237. 450. 396. 343.	6 8 2 3	0.88 0.40 0.69 1.27 0.17	3578 1603 2784 5137 696	9.6 3.8 1.7 7.4 6.5	0.0	06 07 13 11	259.0 279.3 537.0 429.4 675.7	88.2 52.9 164.5 149.3 76.9	0.35 0.24 0.63 0.60 0.43	3.10 2.17 5.65 5.32 3.86	16.83 5.16 1.64 3.92 7.74 0.88	150, 14 45, 98 14, 61 34, 93 69, 00 7, 83	0.37 0.29 0.76 0.65 0.85	3. 2. 6. 5.
ALL JULY 21- II III IV V VI VIII ALL SEP. 16-	2/75 ALL 24/75 ALL ALL ALL ALL ALL ALL ALL	0.59 0.06 0.06 0.11 0.10 0.08	2402. 241. 237. 450. 396. 343.	6 8 2 3 0	0.88 0.40 0.69 1.27 0.17	3579 1603 2784 5137 696 5152	9.6 3.8 1.7 7.4 5.5	0.0	06 07 13 11 17	259.0 279.3 537.0 429.4 675.7	88.2 52.9 164.5 149.3 76.9	0.35 0.24 0.63 0.60 0.43	3.10 2.17 5.65 5.32 3.86 6.62	16.83 5.16 1.64 3.92 7.74 0.88 4.78	150, 14 45, 98 14, 61 34, 96 7, 83	0.37 0.29 0.76 0.65 0.85	3. 2. 6. 5. 7.
ALL JULY 21- II III IV // // //I //III ALL SEP. 16-	2/75 ALL 24/75 ALL ALL ALL ALL ALL ALL ALL	0.59 0.06 0.06 0.11 0.10 0.08 0.20	2402. 241. 237. 450. 396. 343. 800.	6 8 2 3 0	0.88 0.40 0.69 1.27 0.17 1.27	3578 1603 2784 5137 696 5152	9.6 3.8 3.7 7.4 5.5 2.5	0.0	06 07 13 11 17	259.0 279.3 537.0 429.4 675.7 947.5	88.2 52.9 164.5 149.3 76.9 1136.9	0.35 0.24 0.63 0.60 0.43 0.74	3.10 2.17 5.65 5.32 3.86 6.62	16.83 5.16 1.64 3.92 7.74 0.88 4.78	150, 14 45, 98 14, 61 34, 93 69,00 7,83 42,64	0.37 0.29 0.76 0.65 0.85	3. 2. 6. 5. 7.
ALL JULY 21- II III IV / / / / / / / / / / / / / / /	2/75 ALL 24/75 ALL ALL ALL ALL ALL ALL ALL	0.59 0.06 0.06 0.11 0.10 0.08	2402. 241. 237. 450. 396. 343.	6 8 2 3 0 3	0.88 0.40 0.69 1.27 0.17	3579 1603 2784 5137 696 5152	9.6 3.8 1.7 7.4 6.5 2.5	0.0	06 07 13 11 17 23	259.0 279.3 537.0 429.4 675.7 947.5	88.2 52.9 164.5 149.3 76.9	0.35 0.24 0.63 0.60 0.43	3.10 2.17 5.65 5.32 3.86 6.62	16.83 5.16 1.64 3.92 7.74 0.88 4.78	150, 14 45, 98 14, 61 34, 96 7, 83	0.37 0.29 0.76 0.65 0.85 0.88	3. 2. 6. 5. 7.
DULY 21-	2/75 ALL 24/75 ALL ALL ALL ALL ALL ALL ALL ALL ALL	0.59 0.06 0.06 0.11 0.10 0.08 0.20	2402. 241. 237. 450. 396. 343. 800.	6 8 2 3 0 3 8 2 7	0.88 0.40 0.69 1.27 0.17 1.27	3578 1603 2784 5137 696 5152 23096 7184	9.6 3.8 1.7 7.4 6.5 2.5	0.0	06 07 13 11 17 23	259.0 279.3 537.0 429.4 675.7 947.5	88.2 52.9 164.5 149.3 76.9 1136.9	0.35 0.24 0.63 0.60 0.43 0.74	3.10 2.17 5.65 5.32 3.86 6.62	16.83 5.16 1.64 3.92 7.74 0.88 4.78	150, 14 45, 98 14, 61 34, 93 69, 00 7, 83 42, 64	0.37 0.29 0.76 0.65 0.85 0.88	3. 2. 6. 5. 7. 7.
ULV 21- II V V VIIII ULL EP. 16- III V	2/75 ALL 24/75 ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	0.59 0.06 0.06 0.11 0.08 0.20	2402. 241. 237. 450. 396. 343. 800. 1605. 347. 124. 421. 309.	6 8 2 3 3 0 3 8 2 7 9 3	0.88 0.40 0.69 1.27 0.17 1.27 5.71 1.78 0.15	3579 1603 2784 5137 696 5152 23096 7184 614	9.6 3.8 3.7 7.4 6.5 2.5 2.5	0.0	06 07 113 111 117 23 43 1 09 04 113	259.0 279.3 537.0 429.4 675.7 947.5 725.8 364.9 156.5	88.2 52.9 164.5 149.3 76.9 1136.9 515.6 142.2 71.2	0.35 0.24 0.63 0.60 0.43 0.74	3.10 2.17 5.65 5.32 3.86 6.62 11.67 5.15 2.17 6.93 5.75	16.83 5.16 1.64 3.92 7.74 0.88 4.78 18.82 11.95	150, 14 45, 98 14, 61 34, 93 69, 00 7, 83 42, 64 167, 84 108, 62 10, 71	0 0.37 0 0.29 0 0.65 0 0.65 0 0.85 4 0.88 4 1,41 0.61 0 0.31 0 96	3. 2. 6. 5. 7. 7.
DULY 21-	2/75 ALL 24/75 ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	0.59 0.06 0.06 0.11 0.10 0.08 0.20	2402. 241. 237. 450. 396. 343. 800.	6 8 2 3 3 0 3 8 2 7 9 3	0.88 0.40 0.69 1.27 0.17 1.27 5.71 1.78 0.15 0.54	3579 1603 2784 5137 696 5152 23096 7184 614 2198	9.6 3.8 3.7 7.4 6.5 2.5 2.5	0.0	06 07 113 111 17 223 443 1 09 04 113	259.0 279.3 537.0 429.4 675.7 947.5 725.8 364.9 156.5 522.1	88.2 52.9 164.5 149.3 76.9 1136.9 515.6 142.2 71.2 201.2	0.35 0.24 0.63 0.60 0.43 0.74 1.31 0.58 0.24 0.78	3.10 2.17 5.65 5.32 3.86 6.62 11.67 5.15 2.17 6.93	16.83 5.16 1.64 3.92 7.74 0.88 4.78 18.82 11.95	150, 14 45, 98 14, 61 34, 93 69, 00 7, 83 42, 64 167, 84 106, 62 10, 7, 13	0 0.37 0 0.29 0.76 0 0.65 0 0.85 4 0.88 4 1.41 0 0.61 0 0.31 0 0.96	3. 2. 6. 5. 7.

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				*		*														
pend	ix ta	able	IV (ce	ont'd)	SECT		*				. 9	5 PE	RCENT		MEAN .	MEAN				
			AREA (		LEN	-		POP.		VAR.		NF.	LIMITS		WEIGHT	LENGTH		FISH (S		
SECTI	ON A	GE	WETTED	RIFFLE	(M)	CI	C2 :	N		N	LO	WER	UPPER	P	(GM)	(MM)	WETTED	RIFFLE	POOL	
	8-20/		2440.0				40	183		2157	E 0	0.2	276.0	0.38	3.00	64.8	11.69	2.90	8.79	
ALL .			2140.3	530.9	326	69	43	183		2157.	5 8	0.2	276.0	0.30	3.00	.04.0	11.00	2.50		1
	13-15		405 6		70	70	20	450		400		2 7	199.3	0.50	3.44	66.8	2.60	0.26	2.34	
II		LL	405.6	41.1	73	78	39	156		468 . 256 .		2.7	53.4	0.38	7.37	86.2	16.84	4.19	12.65	
III		LL	359.3	89.4	55	8	5	21 25		3600		5.0	145.0	0.30	6.90	81.6	10.62	3.48	7.14	
IV .		LL	265.6	87.0	36	5	4.								8.71	92.3	20.20	4.36	15.84	
V		LL	272.7	58.9	47	9	3	14		6.		8.3	18.7	1.00	8.11	91.4	45.81	6.72	39.09	"
VI		LL	412.3	60.5	55	_	0	-		-	-	9.0				4		5.94	5.96	44
VIII	A	ILL	312.8	156.1	60	17	6	26		16	3 1	B.2	34.4	0,65	7.16	86.7	11.91	5.84	3	
ALL	A	LL	2028.3	493.0	326	126	57	230		416	4 18	9.3	270.9	0.55	4.93	74.3	8.82	2:14	6.67	,
	20-23																			
11	A	ILL	370.9	. 24.7	73	53	34	148	. :	2167	8 5	4.7	241.0	0.36	3.65	68.5	2.51	0.17	2.34	
III	А	ILL.	358.2	28.6	55	6	1	7		0.	4.	5.9	.8.5	0.83	7.85	87.9	49.75	3.97	45.78	
IV .	А	LL	262.0	68.7	38	6	8	7		0.	4	5.9	8.5	0.83	7.82	87.4	36.39	9.54	26.85	
V	- A	LL	256.8	66.0	48	3	. 2	9		180.	0 -1	7.8	35.8	0.33	8.97	93.2	28.53	7.33	21.20	
VI	Α	LL	388.5	78.7	53	7	4	16		106.	is -	4.3	37.0	0.43	8.20	89.7	23.79	4.82	18.97	
IIIV	A	LL	288.3	110.8	62	10	2	13		1.	2 10	о, з	14.7	0.80	7.34	85,5	23.06	8.86	14.20	
ALL	. A	LL	1924.7	377.5	329	85	44	176	- 1	638	6 12	5.7	226.8	0.48	5.04	74.9	10.92	2.14	8.78	
		-														**				
				ETTED			FFLE.			POC			ETTED		TTED		FFLE.		POOL	
			FISH/			FISH/	FIS		FISH		FISH/		TAL WT	·GM/	LB/	GM/	LB/	GM/		-
SECTI	ON A	GE	SQ. M	ACRE		SQ. M	ACRI	E	SQ.	М	ACRE		(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. 1	ACRE	
	8-20/	-			-															. :
ALL	. A	LL	0.09	346.	2	0.34	139	9.0	0.	11	460.5		549.4	0.26	2.29	1.03	9.23	0.3	4 3.05	
	13-15				_															+
II		LL	0.38			3.80	15360		0.4		1732.0		536.7	1.32	11.80	13.06	116.48	4		
III		LL	0.06			0.24	969		0.0		319.9		157.3	0.44	3.90	1.76	15.69			
		LL	0.09			0.29	116:		0.		566.5		172.5	0.65	5.79	1.98	17.68			
IV	- A	LL	0.05			0.23		7.6	0.0		255.5		117.6	0.43	3.85	2.00				
V			. 0 00	88.	3	0.15	60:	2.0	0.0		103.5		73.0	0.18	1.58	1.21	10.7€			
IV V VI	A	LL	0.02						-	a re	678.5		188.0	0.60	5.36	1.20	10.74	1 . 1.20	0 10.70	
IV V VI	A	LL	0.08			0.17	68	1.1	0.	1/	0/0.3									
V V VI VIII	A			339.	9	0.17	188		0.		606.5		134.9	0.56	4.99	2.30		0.74	6.59	
IV V VI VIII ALL SEP.	A A 20-23	LL 1/76	0.08	339 . 459 .	9	0.47	188	3.8					134.9	0.56			20.53			
V VI VIII VIII	A A 20-23	LL	0.08	339 . 459 .	9		-	3.8		15		1	134.9	0.56	4.99	21.84	20.53		13.90	
IV V VI VIII ALL SEP.	A A 20-23 A	LL 1/76	0.08	459. 1613.	9	0.47	188	3.4	0.	15	606.5	1					20.53	1.50	13.90	
IV V VI VIII ALL SEP. II	A A 20-23 A	LL 1/76 1/1	0.08	339. 459. 1613. 81.	9 1 1 3	0.47 5.99	188	3.4	0.4	15 43 02	606.5	1	539.4	1.45	12.97	21.84	20.53	1.50	6 13.90 7 1.53	
V V VI VIII	A 20-23 A A	/76	0.08 0.11 0.40 0.02	339. 459. 1613. 81.	9 1 1 3 2	0.47 5.99 0.25	1886 2422: 1016 424	3.4	0.4	15 43 02 04	606.5 1728.2 88.4	1	539.4 56.5	1.45	12.97	21.84	20.53 194.78 17.64	1.50	6 13.90 7 1.53 9 2.60	
IV V VI VIII ALL SEP. III III	20-23 A A A	/76 LL LL	0.08 0.11 0.40 0.02 0.03	339. 459. 1613. 81. 111.	9 1 1 3 2 8	0.47 5.99 0.25 0.10	1888 2422 1018 424 55	3.4 3.8 1.1	0.4	15 43 02 04 05	1728.2 88.4 150.7	1	539.4 56.5 56.3 80.7	1.45 0.16 0.21 0.31	12.97 1.41 1.92 2.80	21.84 1.98 0.82	20.53 194.78 17.64 7.31	1.50 1 0.11 1 0.21	6 13.90 7 1.53 9 2.60 2 3.77	
IV V VI VIII ALL SEP. II III	20-23 A A A A	/76  LL  LL  LL	0.08 0.11 0.40 0.02 0.03 0.04	339. 459. 1613. 81. 111.	9 1 1 3 2 8 1	0.47 5.99 0.25 0.10 0.14	1886 2422: 1016 424	3.4 3.8 1.1 1.9	0.4	15 43 02 04 05 05	1728.2 88.4 150.7	1	539.4 56.5 56.3	1.45	12.97 1.41: 1.92	21.84 1.98 0.82 1.22	20.53 194.78 17.64 7.31 10.91	3 1.56 3 0.11 1 0.21 1 0.42 9 0.43	5 13.90 7 1.53 9 2.60 2 3.77 3 3.86	

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ppendix	tabl	le IV (c	ont'd)	SECT.					1	95 0	ERCENT		MEAN	MEAN				
SECTION	AGE	AREA (S	5Q.M.).	LEN		C2			. CC		LIMITS			LENGTH		FISH (SO RIFFLE		
MAY 16-1	9/77		-			-				-					a de-		-	7.
ALL	ALL	2242.1	495.1	363	41	20	80	210	.9	51.0	109.1	0.51	3.80	69.6	28.01	6.19	21.82	
JULY 19-							40.4				400 7	2 70	4 00	CO #	2.04	0.00	2.95	
III	ALL	374,3	7.0 52.5				124			9.2	133.7		8.76	69.5 90.2	3.01			
IV	ALL .		95 2	. 57	9	2				9.1			8.95	87.9	34.12		25.89	
v	ALL	349.5	0.0	50	4	3		1008	0 -4	47.5			11.77	100.3	21.84		. 21.84	
VI	ALL	393.9	60.2	49	8	2	. 11	2	0				10.32	95.8	36.93		31.28	
VIII	ALL	469.7				10						0	8.30	89.5		3		
									•									
		2319.1	.442.3	355	130	41 .	190	77	.4 17	12.3	207.5	0.68	5.91	76.6	12.21	2.33	9.88	
SEP. 26-																		2
III	ALL	404.5	19.8	66	60	25	103				125.4			71.9			3.74	
IV	ALL	349.1	74.5	. 55	5	2	8			2.5				95.9	41,89		32 95	
		378.6	91.3	54	7	2	10	2	.8	6.4	13.2	0.71	8.50	91.9	38.63			
	ALL	349.0	13.0	50	4	1	. 5	1	.0	3.3	7.3	0,75	9.14		65.44			. 200
VI	ALL	426.7	80.6	56	4	6							10.99	96:8				
VIII	ALL	439.0	209.9	76	14	11	65	7319	. 810	35.8	236.4	0.21	8.59	89.3	6.72	3.21	3.51	
ALC	ALL	2346.9	489.1	357	94	47	188	564	.0 1	40.5	235.5	0.50	6.33	79.9	12:48	2.60	9.88	***
		WE	ETTED		01			POC			HETTED	WE	TTED		FFLE	PO	-	
	2 .	FISH/	FISH	4/. 1	EICH/	FISH	. /	ETCH/	FISH	1' T	DTAL WT	CM/	IR/	· · GM/	IR/	GM/	IB/	
SECTION	AGE				SQ. M	ACRE		SQ. M	ACRE		(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	ACRE	
MAY . 16-11	9/77 ALL	0.04	144.	6	0.16	654	3	0.05	185	4 .	303.9	0.14	1.21	0.61	5.47	7 0.17	1.55	!
		0.0-	*****	3	0.10	054		0.00	100.	'	300.0	0,11		0.0.	017.			
JULY 19-	21/77																	
II	ALL :	0.33	1345.0	6 - 1	17.78	71950	1.3	0.34	1371.2	2 .	537.7	1.44	12.81	76.81	685.16	6 1.46	13.06	
111	ALL	0.03	121.0		0.19			0.04	144.1		88.7	0.26		1.69			2.78	
IV	ALL:	0.03	118.		0.12			0.04	156.3		103.6	0.26		1.09			3.08	
V	ALL	0.05	185.		0.00			0.05	185.4		188.4	0.54		0.00			4.81	
VI	ALL	0.03	109.		0.18			0.03	129.4		110.1	0.28		1.83			2.94	
VIII	ALL				0			0.00		-								
ALL	ALL	0.08	331.4	4	0.43	1737	. 5	0.10	409.	5	1121.6	0.48	4.31	2.54	22.62	2 0.60	5.33	
SEP. 26-2	29/77														4.			
II	ALL.	0.25	1029.	1 "	5.19	21023	.4	0.27	1082.0	٥	450.6	1.11	9.94	22.76	202.98	8 1.17	10.45	
III	ALL .	0.02	96.6		0.11	452		0.03	122.8		87.8	0.25		1.18			2.85	
IV	ALL	0.03	104.8		0.11			0.03	138.0		83.3	-		0.91			2.59	
V	ALL.	0.02	61.8		0.41			0.02	64.2		48.8	0.14		3.75			1.29	
VI	ALL							0.01										
VIII	ALL	0.15	602.3	3	0.31	1259	.7	0.29	1154.1	1 '	561.1	1.28	11.40	2.67	23.84	4 2.45	21.85	
ALL	ALL	0.08	324.2	2 .	0.38	1555	.6	0.10	409.5	5	1190.6	0.51	4.53	2.43	21.7	0.64	5.72	
																	*	

bbeugix	tab	le IV (	cont'd)	SECT.						95 PI	ERCENT		MEAN	MEAN			
	4.	AREA (	SQ.M) . .RIFFLE	LEN		C2	POP.	VAR	: ·C		LIMITS	P.	WEIGHT (GM)	LENGTH (MM)	AREA/ WETTED	FISH (SQ	PO0
JUNE 5-8	/70		· ,	:					1							1. 1	
II	ALL	405.0	36.7	70	60	39	17.1	2787	3	65.8	277.0	0.35	3.33	64.9	2.36	0.21	2.1
111	ALL	319.3	46.9	55	-4	2	8	24		-1.8	17.8	0.50	9.62	93.7	39.91	5.86	34.0
IV	ALL	399.5	81.9	56	4	4						0.00	6.42	81.2			
V	ALL .	292.0	41.3	46	3	2	9	180	.0 -	17.8	35.8	0.33	9.66	93.8	32.44	4.59	27.8
/1	ALL	434.9	99.3	57	5	0	5		.0	5.0	5.0	1.00	10.74	98.0	86.98	19.86	67.1
/111	ALL .	432.2	204.0	74	12	7.	29	214	. 5	-0.5	58.1	0,42	7.70	87.8	15.01	7.08	7.9
LL	ALL	2282.9	510.1.	358	88	54	228	2399	.5 -1	29.8	325.7	0.39	4.84	72.3	10.02	2.24	7.7
					. *												
JULY 25-																	
II	ALL	342.6	14.0	71	127	84	375	7023		07.5		0.34	2.63	60.6	0.91	0.03	0.8
	ALL	316.9	20.7	55	6	3	12	36		0.0		0.50	11.20	93.3	26.41	1.73	24.6
	ALL	325.2	47.2	58	. 4	0	4		.0	4.0		1:00	3.85	68.0	81.30	11.80	69.
	ALL	270.8	23.2	49	3	-1	5		.3	1.5	7.5	0.67	9.89	94.5	60.18	5, 16	55.0
III	ALL	352:.4 366.1	132.5	55	. 5	1 2	13		.6	10.3	14.7	0.80	7.89 8.76	83.2 90.7	56.38	10.60	49.
LL	ALL	1974.0	277.4	362	155	91	375	2917	.2 2	67.4	483.4	0.41	3.51	64.5	5.26	0.74	4.
		W	ETTED		RI	FFLE		PO	OL		VETTED	WE.	TTED	RII	FFLE	PO	OOL
		FISH/		/ F	ISH/	FISH	1	FISH/			TAL WT	GM/	LB/	GM/	LB/	GM/	LB.
ECTION	AGE	SQ: M			Q. M	ACRE		SQ. M			(GM)	SQ. M	ACRE	SQ. M		SQ. M	AC
	-:	-						<del></del>						8.7			
UNE 5-8	/78										:						
I . ,	ALL	0.42	1713.0	0 .	4.67	18903	. 9	0.47	1883.	7	570.7	1.41	12.57	15.55	138.71	1.55	13.
II.	ALL .	0.03			0.17	690		0.03	118		76.9	0.24	2.15	1.64	14.63	0.28	2.
V	ALL		7.0.10			-											
7	ALL	0.03	124.	7	0.22	881	.9 .	0.04	145.	3 .	86.9	0.30	2.66	2.10	18.78	0.35	. 3.
1 .	ALL	0.01	46.	5	0.05	203	. 8	0.01	60.	3.	53.7	0.12	. 1.10	0.54	4.82	0.16	1.
III.	ALL	0.07	269.	7	0.14	571	.3	0.13 .	510.	8	221.6	0,51	4.57	1.09	9.69	0.97	8.
LL	ALL	0.10	403.	В	0.45	1807	.0	0.13	519.	9	1101.6	0.48	4.30	2:16	19.26	0.62	5.
	27/78																
	ALL	1.09	4430.1	B 2	9.30	118594	.0	/1.14	4602.	8	985.1	2.88	25.65	76.96	686.46	2.99	26.
		0.04	153.		0.58	2346		0.04	164.		134.4	0.42	3.78	6.49	57.91	0.45	4.
1	ALL	0.04		19	0.08	343	.0	0.01	. 58.	2	15.4	0.05	0.42	0.33	2.91	0.06	0.
ULY 25-2 I II V	ALL	0.01	49.1	B	0.00												1 1.
I II V					0.19	785	.0	0.02	73.	6	44.5	0.16	1.47	1.92	17.10	0.18	
I II V	ALL ALL	0.01 0.02 0.02	67.: 71.:	3		785 616		0.02	81.		49.3	0.16	1.25	1,20			
I II V	ALL .	0.01	67.: 71.:	3	0.19		.9			2.						0.16	4.

	tabl	e IV (co	ont'd)	SECT.					8	5 PE	RCENT		MEAN	MEAN	.*		
SECTION	AGE	AREA (	SQ.M)	LEN (M)		C2	POP.	VAR			LIMITS		WEIGHT (GM)	LENGTH (MM)		FISH (SQ	M) POO
SEP. 20-				>4			٠.			1							
11	ALL	507.7	57.2	7.1	174	76	309			5.4	352.5		2.36	60.1	1.64	0.19	-1.4
III	ALL	401.3	85.0	55	7	4	16		.5 -	4.3	37.0		6.25	81.3	24.57	5.20	19.
V.	ALL	423.5	124.8	58	9	7	41			5.5	166.5		8.82		10.46	3.08	7.
	ALL	330.4	97.7	49	9	1	10			9.2.	11.0		6.08	76.1	32.63	9.65	14.
I	ALL	435.1	127.8	. 56	14	5	22			4.2	29.3		9.26	91.8	19.98	5.87	
III	ALL	453.6	218.9	72	18	5	25	6	.5 1	9.8	30.0	0.72	8.70	90.0	18.20	8.78	9.
LL	ALL	2551.6	711.4	361-	231	98	401	538	.8 35	4.8	447.6	0.58	3.76	66.6	6.36	1.77	4.
JUNE 4-1	3/79							•	4				* 4				
	ALL	427.8	47.8	71	108	72	324	6480	.0 16	0.6	485.0	0.33	2.87	62.8	1.32	0.15	1.
11	ALL	361.8	54.3	55	7	2	10			6.4	13.2		8.02	88.0	36.92	5.54	31.
V	ALL	375.1	66.4	59	10	1.	11			0.3	11.9.		8.13	83.5	. 33.76	5.98	27.
,	ALL	233.9	99.4	61	4	3	16	1008		7.5	79.5		8.47	89.3	14.62	6.21	8
II:	ALL	342.4	38.0	79	. 7	5	25	918		6.1	85.1		6.61	.81.5	13.98	1.55	12.
111	ALL	470.2	197.3	74	12	6	24			7.0	41.0	0.50	10.04	93.5	19.59	8.22	11.
LL	ALL	2211.2	503.2	399	148	89	371	3393	.5 25	4.7	487.8	0.40	4.21	68.8	5.96	1.36	4.
	,	W	ETTED		RI	FFLE		PC	OL	W	ETTED	WET	TTED	RI	FFLE	PO	DL.
		FISH/			ISH/	FISH		FISH/	FISH/		TAL WT	GM/	LB/	GM/	LB/	GM/	
ECTION	AGE	SQ. M	ACRE	S	Q. M	ACR	E	50. M	ACRE		(GM)	SQ: M	ACRE	SQ. M	ACRE	SQ. M	AC
	1		* **				161						11.				٠,
EP. 20-	OCT.	5/78														. "	
EP. 20-	OCT.	5/78	2462.	6 .	5.40	2185	B.O	0.69	2775.3		728.6	1.44	12.80	12.74	113.62	1.62	14.
I			2462. 164.	7	0.19		B.O 7.7	0.69	2775.3		728.6	1.44	12.80	12.74			14.
I	ALL	0.61	164.	7	0.19		7.7								10.72	0.32	10.
I	ALL	0.61	164. 387.	7		131	7.7	0.05	209.0		102.1	0.25	2.27 7.52	1.20	10.72	0.32	10.
I II V	ALL ALL	0.61 0.04 0.10	164. 387. 124.	7	0.19	77 131: 41:	7.7	0.05	209.0 548.7		102.1	0.25	2.27 7.52 1.66 4.13	1.20	10.72 25.52 5.62	0.32 1.20 0.26	10.
I II V	ALL ALL ALL	0.61 0.04 0.10 0.03	164. 387. 124. 202.	7 0 0 6	0.19 0.32 0.10	77 131: 41: 68:	7.7 3.3 9.4	0.05 0.14 0.04	209.0 548.7 176.1		102.1 357.0 61.6	0.25 0.84 0.19	2.27 7.52 1.66	1.20 2.86 0.63	10.72 25.52 5.62 14.08	0.32 1.20 0.26 0.66	10.
I II V	ALL ALL ALL ALL	0.61 0.04 0.10 0.03 0.05	164. 387. 124. 202. 222.	7 0 0 6 4	0.19 0.32 0.10 0.17	77 131: 41: 68:	7.7 3.3 9.4 9.6 0.8	0.05 0.14 0.04 0.07	209.0 548.7 176.1 286.8		102.1 357.0 61.6 201.7	0.25 0.84 0.19 0.46	2.27 7.52 1.66 4.13	1.20 2.86 0.63 1.58	10.72 25.52 5.62 14.08 8.84	0.32 1.20 0.26 0.66 0.92	10.2.5
I I I I I I I I	ALL ALL ALL ALL ALL ALL	0.61 0.04 0.10 0.03 0.05 0.05	164. 387. 124. 202. 222.	7 0 0 6 4	0.19 0.32 0.10 0.17 0.11	77 131: 41: 68: 46:	7.7 3.3 9.4 9.6 0.8	0.05 0.14 0.04 0.07 0.11	209.0 548.7 176.1 286.8 429.8		102.1 357.0 61.6 201.7 216.9	0.25 0.84 0.19 0.46 0.48	2.27 7.52 1.66 4.13 4.26	1.20 2.86 0.63 1.58 0.99	10.72 25.52 5.62 14.08 8.84	0.32 1.20 0.26 0.66 0.92	10.2.5
I II V I IIII LL UNE 4-1	ALL ALL ALL ALL ALL ALL ALL	0.61 0.04 0.10 0.03 0.05 0.05	164. 387. 124. 202. 222.	7 0 0 6 4 3	0.19 0.32 0.10 0.17 0.11	77 131: 41: 68: 46: 228:	7.7 3.3 9.4 9.6 0.8	0.05 0.14 0.04 0.07 0.11	209.0 548.7 176.1 286.8 429.8	11	102.1 357.0 61.6 201.7 216.9	0.25 0.84 0.19 0.46 0.48	2.27 7.52 1.66 4.13 4.26 5.27	1.20 2.86 0.63 1.58 0.99	10.72 25.52 5.62 14.08 8.84	0.32 1.20 0.26 0.66 0.92	2. 10. 2. 5. 8.
I II V I III LL UNE 4-1	ALL ALL ALL ALL ALL ALL ALL	0.61 0.04 0.10 0.03 0.05 0.05 0.16	164. 387. 124. 202. 222. 636.	7 0 0 6 4 3	0.19 0.32 0.10 0.17 0.11 0.56	777 1313 419 689 460 2283	7.7 3.3 9.4 9.6 0.8 2.4	0.05 0.14 0.04 0.07 0.11 0.22	209.0 548.7 176.1 286.8 429.8 882.3	11	102.1 357.0 61.6 201.7 216.9 507.7	0.25 0.84 0.19 0.46 0.48 0.59	2.27 7.52 1.66 4.13 4.26 5.27	1.20 2.86 0.63 1.58 0.99 2.12	10.72 25.52 5.62 14.08 8.84 18.90	0.32 1.20 0.26 0.66 0.92 0.82	2. 10. 2. 5. 8. 7.
I II V III LL UNE 4-1	ALL ALL ALL ALL ALL ALL ALL ALL	0.61 0.04 0.10 0.03 0.05 0.05 0.16	164. 387. 124. 202. 222. 636.	7 0 0 6 4 3	0.19 0.32 0.10 0.17 0.11 0.56	77 131: 41: 68: 46: 228: 2743 73:	7.7 3.3 9.4 9.6 0.8 2.4	0.05 0.14 0.04 0.07 0.11 0.22	209.0 548.7 176.1 286.8 429.8 882.3	11	102.1 357.0 61.6 201.7 216.9 507.7	0.25 0.84 0.19 0.46 0.48 0.59	2.27 7.52 1.66 4.13 4.26 5.27	1.20 2.86 0.63 1.58 0.99 2.12	10.72 25.52 5.62 14.08 8.84 18.90	0.32 1.20 2.0.26 3.0.66 3.0.92 0.82	2. 10. 2. 5. 8. 7.
I II V I III LL UNE 4-1 III V	ALL ALL ALL ALL ALL ALL ALL ALL	0.61 0.04 0.10 0.03 0.05 0.05 0.16	164. 387. 124. 202. 222. 636.	7 0 0 6 4 4 3 0 6 6 9	0.19 0.32 0.10 0.17 0.11 0.56 6.78 0.18 0.17	77 131: 41: 68: 46: 228: 2743 73: 67:	7.7 3.3 9.4 9.6 0.8 2.4 1.6 0.4 7.2	0.05 0.14 0.04 0.07 0.11 0.22 0.85 0.03 0.04	209.0 548.7 176.1 286.8 429.8 882.3 3450.6 129.0 145.7	11	102.1 357.0 61.6 201.7 216.9 507.7	0.25 0.84 0.19 0.46 0.48 0.59 2.18 0.22 0.24	2.27 7.52 1.66 4.13 4.26 5.27	1.20 2.86 0.63 1.58 0.99 2.12 19.47 1.45 1.36	10.72 25.52 5.62 14.08 8.84 18.90 173.69 12.91	0.32 1.20 0.26 0.66 0.92 0.82	2. 10. 2. 5. 8. 7.
I II V I III LL UNE 4-1 II V	ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL	0.61 0.04 0.10 0.03 0.05 0.05 0.16	164. 387. 124. 202. 222. 636.	7 0 0 6 4 3 0 6 9 8 8	0.19 0.32 0.10 0.17 0.11 0.56 6.78 0.18 0.17 0.16	77 131: 41: 68: 46: 228: 2743 73: 67: 65:	7.7 3.3 9.4 9.6 0.8 2.4 1.6 0.4 7.2	0.05 0.14 0.04 0.07 0.11 0.22 0.85 0.03 0.04 0.12	209.0 548.7 176.1 286.8 429.8 882.3 3450.6 129.0 145.7 481.4	11	102.1 357.0 61.6 201.7 216.9 507.7 930.8 78.6 90.3 135.6	0.25 0.84 0.19 0.46 0.48 0.59 2.18 0.22 0.24 0.58	2.27 7.52 1.66 4.13 4.26 5.27 19.41 1.94 2.15 5.17	1.20 2.86 0.63 1.58 0.99 2.12	10.72 25.52 5.62 14.08 8.84 18.90 173.69 12.91 12.13	0.32 1.20 2.0.26 3.0.66 3.0.92 0.82 0.82	2. 10. 2. 5. 8. 7. 21. 2. 2. 8.
I II V IIII LL	ALL ALL ALL ALL ALL ALL ALL ALL	0.61 0.04 0.10 0.03 0.05 0.05 0.16	164. 387. 124. 202. 222. 636.	7 0 0 0 6 4 3 3 0 6 6 9 8 6 6	0.19 0.32 0.10 0.17 0.11 0.56 6.78 0.18 0.17	77 131: 41: 68: 46: 228: 2743 73: 67: 65: 260:	7.7 3.3 9.4 9.6 0.8 2.4 1.6 0.4 7.2	0.05 0.14 0.04 0.07 0.11 0.22 0.85 0.03 0.04	209.0 548.7 176.1 286.8 429.8 882.3 3450.6 129.0 145.7	11	102.1 357.0 61.6 201.7 216.9 507.7	0.25 0.84 0.19 0.46 0.48 0.59 2.18 0.22 0.24	2.27 7.52 1.66 4.13 4.26 5.27	1.20 2.86 0.63 1.58 0.99 2.12 19.47 1.45 1.36	10.72 25.52 5.62 14.08 8.84 18.90 173.69 12.17 12.13 12.17 38.04	0.32 1.20 2.0.26 3.0.66 3.0.92 0.82 0.82 0.26 0.26 0.29 1.01	

SECTIO		AREA (S WETTED	Q.M)	SECT. LEN (M)		C2	POP.	VAR.	CON	PERCEN F. LIM ER UP		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SO RIFFLE	M) POOL
	/		: .			. •		:	-							
JULY 2	4-26/79	480.2	35.0	67	85	28	127	60.	6 111	.2 142	.3 0.6	7 3.17	67.0	3.79	0.28	3.51
III	ALL	384.1	70.4	55	5	0	5	0.			.0 1.0		76.2	76.82	14.0B	62.74
IV	ALL	369.4	73.7	53	5	2	8	8.			.2 0.6		84.1	44.33	8.84	35.4
v	ALL	208.0	88.4	57	10	5	20	60.		.5 35			83.6	10.40	4.42	5.9
VI	ALL	328.1	1.6	76	7	5	25	918.			.1 0:2		74.2	13.39	0.07	13.3
VIII	ALL	499.3	151.0	76	12	5	21	25.			7 0.5		84.9	24.27	7.34	16.9
ALL	ALL	2269.1	420.1	384	.124	45	195	135.	1 : 171	.4 217	.9 0.6	4 4.30	71.8	11.66	2.16	9.5
CED (	8-20/79							,								
II .	ALL	414.5	38.5	70	71	37	148	557.	7 101	.0 195	5 0.4	8 3.67	71.7	2.80	0.26	2.5
	ALL	394.5	84.3	55	3	1	5	2.			.5 0.6		87.7	87.67	18.73	68.9
IV .	ALL	434.0	66.7	- 59	. 8	2	11-	2.			.5 0.7		80.9	40.69	6.25	34.4
V .	ALL	230.9	59.7	58	. 5	8						7.73	86.8			
VI	ALL	368.4	23.7	77	7	3	12	17.	2 . 3	.9 20	.6 0.5	7 6.56	83.5	30.07	1.93	28:1
IIIV	ALL	429.2	164.0	72	11	.7	30	416.	9 -10	.6 71	.1 0.3	6.34	82.8	14.19	5.42	8,7
LL	ALL	2271.5	436.9	391	105	58	235	1238.	9 164	.2 305	.0 0.4	5 4.82	75.8	9.68	1.86	7.6
		. WE	TTED		RI	FFLE		P00	L	WETTE	D	WETTED	RI	FFLE	PO	
SECTIO	N ACE	FISH/	FISH, ACRE		ISH/	FISH		FISH/ SQ. M	FISH/	TOTAL (GM)	WT GM		GM/	LB/ ACRE	GM/	ACR
	N AGE	SQ. M	MOUF												941 11	
		SQ. M	None	;					,							
JULY 2	4-26/79						•						44.40			
JULY 2	4-26/79 ALL	0.26	1068		3.62	14656			1152.2	402.			11.49		0.90	
JULY 2	4-26/79 ALL ALL	0.26	1068.:	7	0.07	287	.4	0.02	64.5	24.	0. 0.	06 0.56	0.34	3.04	0.90	0,6
JULY 2 II. III	4-26/79 ALL ALL ALL	0.26 0.01 0.02	1068 .: 52 .: 91 .:	7 3 ·	0.07	287 457	. 6	0.02	64.5	24. 55.	9 0.	06 0.56 15 1.35	0.34	3.04 6.76	0.90 0.08 0.19	0,6
JULY 2 II. III IV.	4-26/79 ALL ALL ALL ALL	0.26 0.01 0.02 0.10	1068.: 52.: 91.: 389.	7 3	0.07 0.11 0.23	287 457 915	.6	0.02 0.03 0.17	64.5 114.1 676.8	24. 55. 143.	0. 9 0. 0 0.	06 0.56 15 1.35 69 6.13	0.34 0.76 1.62	3.04 6.76 14.43	0.90 0.08 0.19 1.20	1.6
JULY 2 II III IV. V	4-26/79 ALL ALL ALL ALL ALL	0.26 0.01 0.02 0.10 0.07	1068.: 52.: 91.: 389.: 302.:	7 3 1 2 1	0.07 0.11 0.23 5.31	287 457 915 61969	.4 .6 .6	0.02 0.03 0.17 0.08	64.5 114.1 676.8 303.7	24. 55. 143. 126.	0. 9 0. 0 0. 7 0.	06 0.56 15 1.35 69 6.13 39 3.44	0.34 0.76 1.62 79.17	3.04 6.76 14.43 706.21	0.90 0.08 0.19 1.20 0.39	0,6 1.6 10.6 3.4
JULY 2 III III IV. V VI VIII	4-26/79 ALL ALL ALL ALL ALL	0.26 0.01 0.02 0.10 0.07 0.04	1068. 52. 91. 389. 302. 166.	7 3 1 2 1 7	0.07 0.11 0.23 5.31 0.14	287 457 915 61969 551	.4 .6 .6 .7	0.02 0.03 0.17 0.08 0.06	64.5 114.1 676.8 303.7 239.0	24. 55. 143. 126. 153.	0 0. 9 0. 0 0. 7 0. 9 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75	0.34 0.76 1.62 79:17 1.02	3.04 6.76 14.43 706.21 9.09	0.90 0.08 0.19 1.20 0.39 0.44	0,6 1.6 10.6 3.4 3.9
JULY 2 II III IV V VI VIII	4-26/79 ALL ALL ALL ALL ALL	0.26 0.01 0.02 0.10 0.07	1068.: 52.: 91.: 389.: 302.:	7 3 1 2 1 7	0.07 0.11 0.23 5.31	287 457 915 61969	.4 .6 .6 .7	0.02 0.03 0.17 0.08	64.5 114.1 676.8 303.7	24. 55. 143. 126.	0 0. 9 0. 0 0. 7 0. 9 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75	0.34 0.76 1.62 79.17	3.04 6.76 14.43 706.21 9.09	0.90 0.08 0.19 1.20 0.39 0.44	0,6 1.6 10.6 3.4 3.9
JULY 2 II III IV V VI VIII ALL	4-26/79 ALL ALL ALL ALL ALL	0.26 0.01 0.02 0.10 0.07 0.04	1068. 52. 91. 389. 302. 166.	7 3 1 2 1 7	0.07 0.11 0.23 5.31 0.14	287 457 915 61969 551	.4 .6 .6 .7	0.02 0.03 0.17 0.08 0.06	64.5 114.1 676.8 303.7 239.0	24. 55. 143. 126. 153.	0 0. 9 0. 0 0. 7 0. 9 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75	0.34 0.76 1.62 79:17 1.02	3.04 6.76 14.43 706.21 9.09	0.90 0.08 0.19 1.20 0.39 0.44	0,6 1.6 10.6 3.4 3.9
JULY 2 II III IV V VI VIII ALL SEP. 1	4-26/79 ALL ALL ALL ALL ALL ALL	0.26 0.01 0.02 0.10 0.07 0.04	1068. 52. 91. 389. 302. 166.	7 3 1 2 1 7	0.07 0.11 0.23 5.31 0.14	287 457 915 61969 551	.4 .6 .6 .7 .3	0.02 0.03 0.17 0.08 0.06	64.5 114.1 676.8 303.7 239.0	24. 55. 143. 126. 153.	0 0. 9 0. 0 0. 7 0. 9 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75	0.34 0.76 1.62 79:17 1.02	3.04 6.76 14.43 706.21 9.09	0.90 0.08 0.19 1.20 0.39 0.44	0,6 1.6 10.6 3.4 3.9
JULY 2 II III IIV V VI VIII ALL SEP. 1 III	4-26/79 ALL ALL ALL ALL ALL ALL ALL	0.26 0.01 0.02 0.10 0.07 0.04	1068. 52. 91. 389. 302. 166.	7 3 1 2 1 7	0.07 0.11 0.23 5.31 0.14	287 457 915 61969 551	.4 .6 .6 .7 .3 .0	0.02 0.03 0.17 0.08 0.06	64.5 114.1 676.8 303.7 239.0	24. 55. 143. 126. 153.	0 0. 9 0. 0 0. 7 0. 9 0. 0 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75 37 3.29	0.34 0.76 1.62 79.17 1.02	3.04 6.76 14.43 706.21 9.09 17.75	0.90 0.08 0.19 1.20 0.39 0.44 0.45	0,6 1.6 10.6 3.4 3.9 4.0
JULY 2 III III IV V VI VIII ALL SEP. 1 III IV	4-26/79 ALL ALL ALL ALL ALL ALL ALL 8-20/79	0.26 0.01 0.02 0.10 0.07 0.04 0.09	1068. 52. 91. 389. 302. 166.	7 3 1 1 2 1 7 1	0.07 0.11 0.23 5.31 0.14 0.46	287 457 915 61969 551 1875	.4 .6 .6 .7 .3	0.02 0.03 0.17 0.08 0.06 0.11	64.5 114.1 676.8 303.7 239.0 426.0	24. 55. 143. 126. 153. 836.	0 0. 9 0. 0 0. 7 0. 9 0. 0 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75 37 3.29	0.34 0.76 1.62 79:17 1.02 1.99	3.04 6.76 14.43 706.21 8.09 17.75	0.90 0.08 0.19 1.20 0.39 0.44 0.45	0,6 1.6 10.6 3.4 3.9 4.0
JULY 2 III IV VI VIII ALL SEP. 1 III III IV V	4-26/79 ALL ALL ALL ALL ALL ALL ALL 8-20/79 ALL ALL ALL	0.26 0.01 0.02 0.10 0.07 0.04 0.09	1068. 52. 91. 389. 302. 166. 347.	7 3 1 1 2 7 1 1 1 6 2 5	0.07 0.11 0.23 5.31 0.14 0.46 3.85 0.05 0.16	287 457 915 61969 551 1875	.4 .6 .6 .7 .3	0.02 0.03 0.17 0.08 0.06 0.11	64.5 114.1 676.8 303.7 239.0 426.0	24. 55. 143. 126. 153. 836.	0 0. 9 0. 0 0. 7 0. 9 0. 0 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75 37 3.29 38 12.34 08 0.75 14 1.26	0.34 0.76 1.62 79:17 1.02 1.99	3.04 6.76 14.43 706.21 8.09 17.75	0.90 0.08 0.19 1.20 0.39 0.44 0.45	0,6 1.6 10.6 3.4 3.9 4.0
JULY 2 III IV VI VIII ALL SEP. 1 III IIV V	4-26/79 ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	0.26 0.01 0.02 0.10 0.07 0.04 0.09	1068 : 52 : 91 : 389 : 302 : 166 : 347 : 1447 : 46 : 99 :	7 3 1 1 2 2 1 7 1	0.07 0.11 0.23 5.31 0.14 0.46 3.85 0.05 0.16	287 457 915 61969 551 1875 15585 216 647	.4 .6 .6 .7 .3 .0	0.02 0.03 0.17 0.08 0.06 0.11	64.5 114.1 676.8 303.7 239.0 426.0 1595.8 58.7 117.5	24. 55. 143. 126. 153. 836. 573. 33. 61.	0 0. 9 0. 0 0. 7 0. 9 0. 0 0. 3 1. 2 0. 3 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75 37 3.29 38 12.34 08 0.75 14 1.26 22 1.95	0.34 0.76 1.62 79:17 1.02 1.99 0.39 0.92	3.04 6.76 14.43 706.21 9.09 17.75 132.82 3.52 8.20	0.90 0.08 0.19 1.20 0.39 0.44 0.45 1.52 0.11 0.17	0,6 1.6 10.6 3.4 3.9 4.0
JULY 2 II III IV V VI VIII ALL	4-26/79 ALL ALL ALL ALL ALL ALL ALL 8-20/79 ALL ALL ALL	0.26 0.01 0.02 0.10 0.07 0.04 0.09	1068. 52. 91. 389. 302. 166. 347.	7 3 1 1 2 2 1 7 1	0.07 0.11 0.23 5.31 0.14 0.46 3.85 0.05 0.16	287 457 915 61969 551 1875 15585 216 647	.4 .6 .6 .7 .3 .0	0.02 0.03 0.17 0.08 0.06 0.11	64.5 114.1 676.8 303.7 239.0 426.0 1595.8 58.7 117.5	24. 55. 143. 126. 153. 836.	0 0. 9 0. 0 0. 7 0. 9 0. 0 0. 3 1. 2 0. 3 0.	06 0.56 15 1.35 69 6.13 39 3.44 31 2.75 37 3.29 38 12.34 08 0.75 14 1.26 22 1.95	0.34 0.76 1.62 79:17 1.02 1.99 0.39 0.92	3.04 6.76 14.43 706.21 9.09 17.75 132.82 3.52 8.20	0.90 0.08 0.19 1.20 0.39 0.44 0.45 1.52 0.11 0.17	8.0 0.6 1.6 10.6 3.4 3.9 4.0

														1.4	
AGE	AREA (	SQ.M) RIFFLE	LEN		C	R	POP.	VAR.	CONF.	LIMITS	MEAN WEIGHT (GM)	MEAN LENGTH (MM)			O.M) POOL
/71 ALL ALL	877.0 877.0			21 21	23 30	4	106 341	1471.4 36259.7	28.9 -39.8	182.3 721.8	8.10 8.10	86.9 86.9	8.30 2.57	1.10	7.21 2.23
16/71 ALL ALL ALL ALL ALL	861.2 607.5 579.7 371.8 367.4	116.3 44.7 46.8 45.8 107.0	170 125 100 130 115	28 8 4 0	32 7 1 2 0	20100	319 72 5 3	23127.5 2268.0 0.0 3.0 0.0	14.8 -23.2 5.0 -0.5	623.2 167.2 5.0 6.5 1.0	5.50 10.20 16.20 170.00 0.00	110.5	115.94	0.36 0.62 9.36 15.27 107.00	2.34 7.82 106.58 108.67 260.40
ALL	2787.6	360.6	640	40		3	441		65.3	816.2	7.70	80.8	6.32	0.82	5.51
AGE	FISH/	FISH	1/ 1	FISH/	FIS	H/	FISH/ SQ. M	FISH/	TOTAL WY	GM/	LB/	GM/	LB/	GM/	DOL LB/ ACRE
/71 ALL ALL				0.91			0.14 0.45	561.6 1813.4	855.4 2762.1						
16/71 ALL ALL ALL ALL ALL	0.12 0.01 0.01	479 34 32	97	2.74 1.61 0.11 0.07 0.01	651 43 26	8.7 2.4 5.1	0.43 0.13 0.01 0.01 0.00	1733.1 517.7 38.0 37.2 15.5	1754.5 734.4 81.0 510.0	1.21 0.14 1.37	10.78 1.25 12.24	11.73	146.55 15.44 99.33	1.30	11.64
ALL	0.16	639	9	1.22	494	6.5	0.18	734.9	3393.7	1.22	10.86	9.41	83.95	1.40	12,47
	AGE  AGE  71 ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	AGE WETTED  /71 ALL 877.0 ALL 877.0 16/71 ALL 861.2 ALL 607.5 ALL 579.7 ALL 371.8 ALL 2787.6  FISH/ AGE SQ. M  /71 ALL 0.12 ALL 0.37 ALL 0.37 ALL 0.37 ALL 0.01 ALL 0.01 ALL 0.01 ALL 0.00	AGE WETTED RIFFLE  /71 ALL 877.0 116.0 ALL 877.0 116.0  16/71 ALL 861.2 116.3 ALL 607.5 44.7 ALL 579.7 46.8 ALL 371.8 45.8 ALL 367.4 107.0  ALL 2787.6 360.6  WETTED FISH/ FISH AGE SQ. H ACRE  /71 ALL 0.12 487.6 ALL 0.39 1573.1  16/71 ALL 0.12 479. ALL 0.12 479. ALL 0.01 34. ALL 0.01 34. ALL 0.01 34. ALL 0.01 32. ALL 0.00 11.	AGE WETTED RIFFLE (M)  /71 ALL 877.0 116.0 170 ALL 877.0 116.0 170 16/71 ALL 861.2 116.3 170 ALL 579.7 46.8 100 ALL 371.8 45.8 130 ALL 371.8 45.8 130 ALL 371.8 45.8 130 ALL 2787.6 360.6 640  WETTED FISH/ FISH/ FISH/ SQ. M ACRE  /71 ALL 0.12 487.3 ALL 0.37 1499.1 ALL 0.12 479.6 ALL 0.12 479.6 ALL 0.01 32.7 ALL 0.00 11.0	/71 ALL 877.0 116.0 170 21 ALL 877.0 116.0 170 21 16/71 ALL 861.2 116.3 170 28 ALL 579.7 46.8 100 4 ALL 371.8 45.8 130 0 ALL 367.4 107.0 115 0 ALL 2787.6 360.6 640 40  WETTED RI FISH/ FISH/ FISH/ AGE SQ. M ACRE SQ. M  //1 ALL 0.12 487.3 0.91 ALL 0.37 1499.1 2.74 ALL 0.12 479.6 1.61 ALL 0.01 34.9 0.11 ALL 0.01 32.7 0.07 ALL 0.00 11.0 0.01	AGE WETTED RIFFLE (M) M C  /71 ALL 877.0 116.0 170 21 23 ALL 877.0 116.0 170 21 30  16/71 ALL 861.2 116.3 170 28 32 ALL 607.5 44.7 125 8 7 ALL 579.7 46.8 100 4 1 ALL 371.8 45.8 130 0 2 ALL 367.4 107.0 115 0 0  ALL 2787.6 360.6 640 40 42  WETTED RIFFLE FISH/ FISH/ FISH/ FISH/ FISH AGE SQ. M ACRE SQ. N ACR  /71 ALL 0.12 487.3 0.91 368 ALL 0.37 1499.1 2.74 1110 ALL 0.12 479.6 1.61 651 ALL 0.01 34.9 0.11 43 ALL 0.01 32.7 0.07 26 ALL 0.01 32.7 0.07 26 ALL 0.00 11.0 0.01 3	AGE WETTED RIFFLE (M) M C R  //11 ALL 877.0 116.0 170 21 23 4 ALL 877.0 116.0 170 21 30 1  16/71 ALL 861.2 116.3 170 28 32 2 ALL 607.5 44.7 125 8 7 0 ALL 579.7 46.8 100 4 1 1 ALL 371.8 45.8 130 0 2 0 ALL 367.4 107.0 115 0 0 0  ALL 2787.6 360.6 640 40 42 3  WETTED RIFFLE FISH/ FISH/ FISH/ FISH/ FISH/ AGE SQ. M ACRE  //1 ALL 0.12 487.3 0.91 3684.2 ALL 0.39 1573.6 2.94 11896.8  16/71 ALL 0.12 479.6 1.61 6518.7 ALL 0.12 479.6 1.61 6518.7 ALL 0.01 34.9 0.11 432.4 ALL 0.01 32.7 0.07 265.1 ALL 0.00 11.0 0.01 37.8	AGE WETTED RIFFLE (M) M C R N  771 ALL 877.0 116.0 170 21 23 4 106 ALL 877.0 116.0 170 21 30 1 341  16/71 ALL 861.2 116.3 170 28 32 2 319 ALL 607.5 44.7 125 8 7 0 72 ALL 579.7 46.8 100 4 1 1 5 ALL 371.8 45.8 130 0 2 0 3 ALL 367.4 107.0 115 0 0 0 1  ALL 2787.6 360.6 640 40 42 3 441  WETTED RIFFLE PORTS SQ. M ACRE SQ. M  AGE SQ. M ACRE SQ. M ACRE SQ. M  771 ALL 0.12 487.3 0.91 3684.2 0.14 ALL 0.39 1573.6 2.94 11896.8 0.45  16/71 ALL 0.37 1499.1 2.74 11100.5 0.43 ALL 0.01 34.9 0.11 432.4 0.01 ALL 0.01 32.7 0.07 265.1 0.01 ALL 0.01 32.7 0.07 265.1 0.01 ALL 0.00 11.0 0.01 37.8 0.00	AGE WETTED RIFFLE (M) M C R N N  /71 ALL 877.0 116.0 170 21 23 4 106 1471.4 ALL 877.0 116.0 170 21 30 1 341 36259.7  16/71 ALL 861.2 116.3 170 28 32 2 319 23127.5 ALL 607.5 44.7 125 8 7 0 72 2268.0 ALL 579.7 46.8 100 4 1 1 5 0.0 ALL 371.8 45.8 130 0 2 0 3 3.0 ALL 367.4 107.0 115 0 0 0 1 0.0  ALL 2787.6 360.6 640 40 42 3 441 35238.0  WETTED RIFFLE FISH/ FISH/ FISH/ FISH/ FISH/ AGE SQ. M ACRE SQ. N ACRE SQ. M ACRE  /71 ALL 0.12 487.3 0.91 3684.2 0.14 561.6 ALL 0.39 1573.6 2.94 11896.8 0.45 1813.4  16/71 ALL 0.12 479.6 1.61 6518.7 0.13 517.7 ALL 0.12 479.6 1.61 6518.7 0.13 517.7 ALL 0.01 34.9 0.11 432.4 0.01 38.0 ALL 0.01 32.7 0.07 265.1 0.01 37.2 ALL 0.01 32.7 0.07 265.1 0.01 37.2 ALL 0.00 11.0 0.01 37.8 0.00 15.5	AGE WETTED RIFFLE (M) M C R N N LOMER  771 ALL 877.0 116.0 170 21 23 4 106 1471.4 28.9 ALL 877.0 116.0 170 21 30 1 341 36259.7 -39.8  16/71 ALL 861.2 116.3 170 28 32 2 319 23127.5 14.8 ALL 607.5 44.7 125 8 7 0 72 2268.0 -23.2 ALL 579.7 46.8 100 4 1 1 5 0.0 5.0 ALL 371.8 45.8 130 0 2 0 3 3.0 -0.5 ALL 367.4 107.0 115 0 0 0 1 0.0 1.0  ALL 2787.6 360.6 640 40 42 3 441 35238.0 65.3  WETTED RIFFLE POOL WETTED FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ GM)  AGE SQ. M ACRE SQ. M ACRE SQ. M ACRE GM)  771 ALL 0.12 487.3 0.91 3684.2 0.14 561.6 855.4 ALL 0.39 1573.6 2.94 11896.8 0.45 1813.4 2762.1  16/71 ALL 0.12 479.6 1.61 6518.7 0.13 517.7 734.4 ALL 0.10 34.9 0.11 432.4 0.01 38.0 81.0 ALL 0.01 34.9 0.11 432.4 0.01 38.0 81.0 ALL 0.01 32.7 0.07 265.1 0.01 37.2 510.0 ALL 0.00 11.0 0.01 37.8 0.00 15.5 0.0	AGE WETTED RIFFLE (M) M C R N N LOWER LIMITS AGE WETTED RIFFLE (M) M C R N N LOWER UPPER  771 ALL 877.0 116.0 170 21 23 4 106 1471.4 28.9 182.3 ALL 877.0 116.0 170 21 30 1 341 36259.7 -39.8 721.8  16/71 ALL 861.2 116.3 170 28 32 2 319 23127.5 14.8 623.2 ALL 607.5 44.7 125 8 7 0 72 2268.0 -23.2 167.2 ALL 579.7 46.8 100 4 1 1 5 0.0 5.0 ALL 371.8 45.8 130 0 2 0 3 3.0 -0.5 6.5 ALL 367.4 107.0 115 0 0 0 1 0.0 1.0 1.0  ALL 2787.6 360.6 640 40 42 3 441 35238.0 65.3 816.2  WETTED RIFFLE POOL AGE SQ. M ACRE SQ. M ACRE SQ. M ACRE (GM) SQ. M  771 ALL 0.12 487.3 0.91 3684.2 0.14 561.6 855.4 0.98 ALL 0.39 1573.6 2.94 11896.8 0.45 1813.4 2762.1 3.15  16/71 ALL 0.37 1499.1 2.74 11100.5 0.43 1733.1 1754.5 2.04 ALL 0.01 34.9 0.11 432.4 0.01 38.0 81.0 0.14 ALL 0.01 34.9 0.11 432.4 0.01 38.0 81.0 0.14 ALL 0.01 34.9 0.11 432.4 0.01 38.0 81.0 0.14 ALL 0.01 34.9 0.11 432.4 0.01 38.0 81.0 0.14 ALL 0.01 34.9 0.11 432.4 0.01 38.0 81.0 0.14 ALL 0.01 34.9 0.11 432.4 0.01 38.0 81.0 0.14 ALL 0.00 13.7 0.07 265.1 0.01 37.2 510.0 1.37 ALL 0.00 11.0 0.01 37.8 0.00 15.5 0.0 0.00	AREA (SQ.M) LEN N C R N N LOWER UPPER (GM)  771 ALL 877.0 116.0 170 21 23 4 106 1471.4 28.9 182.3 8.10 ALL 877.0 116.0 170 21 30 1 341 36259.7 -39.8 721.8 8.10  16/71 ALL 861.2 116.3 170 28 32 2 319 23127.5 14.8 623.2 5.50 ALL 607.5 44.7 125 8 7 0 72 2268.0 -23.2 167.2 10.20 ALL 579.7 46.8 100 4 1 1 5 0.0 5.0 5.0 16.20 ALL 371.8 45.8 130 0 2 0 3 3 3.0 -0.5 6.5 170.00 ALL 371.8 45.8 130 0 2 0 3 3 3.0 -0.5 6.5 170.00 ALL 3787.6 360.6 640 40 42 3 441 35238.0 65.3 816.2 7.70  WETTED RIFFLE FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ TOTAL MT GM/ LB/ SQ. M ACRE SQ. M ACRE SQ. M ACRE SQ. M ACRE GM) SQ. M ACRE  771 ALL 0.12 487.3 0.91 3684.2 0.14 561.6 855.4 0.98 8.70 ALL 0.37 1573.6 2.94 11896.8 0.45 1813.4 2762.1 3.15 28.09  16/71 ALL 0.12 487.3 0.91 3684.2 0.14 561.6 855.4 0.98 8.70 ALL 0.37 1499.1 2.74 11100.5 0.43 1733.1 1754.5 2.04 18.17 ALL 0.12 479.6 1.61 6518.7 0.13 517.7 734.4 1.21 10.78 ALL 0.10 33.7 1499.6 1.61 6518.7 0.13 517.7 734.4 1.21 10.78 ALL 0.01 33.7 0.007 265.1 0.01 37.2 510.0 1.37 12.24 ALL 0.01 32.7 0.07 265.1 0.01 37.2 510.0 1.37 12.24 ALL 0.00 132.7 0.07 265.1 0.01 37.2 510.0 1.37 12.24 ALL 0.00 11.0 0.01 37.8 0.00 15.5 0.0 0.00 0.00	AREA (SQ.H) LEN H C R N N LOWER LOWER LIMITS WEIGHT LENGTH AGE WETTED RIFFLE (M) M C R N N LOWER LOWER LOWER LOWER LENGTH (HM)  //1 ALL 877.0 116.0 170 21 23 4 106 1471.4 28.9 182.3 8.10 86.9 ALL 877.0 116.0 170 21 30 1 341 36259.7 -39.8 721.8 8.10 86.9 182.4 18.10 86.9 ALL 877.0 116.0 170 28 32 2 319 23127.5 14.8 623.2 5.50 77.5 ALL 607.5 44.7 125 8 7 0 72 2268.0 -23.2 167.2 10.20 92.9 ALL 579.7 46.8 100 4 1 1 5 0.0 5.0 5.0 16.20 110.5 ALL 371.8 45.8 130 0 2 0 3 3.0 5.5 6.5 170.00 114.5 ALL 371.8 45.8 130 0 2 0 3 3.0 5.5 6.5 170.00 114.5 ALL 371.8 45.8 130 0 0 0 0 1 0.0 1.0 1.0 0.00 0.0 ALL 2787.6 360.6 640 40 42 3 441 35238.0 65.3 816.2 7.70 80.8  WETTED RIFFLE FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ SQ. M ACRE	AREA (SQ.M) LEN	AREA (SQ. M) LEN

											1-1						- 11		
		AREA	(cont'd (SQ.M) D RIFF		LEN		Ċ2	POP.	.1	VAR.		95 PE CDNF. LOWER	ERCENT LIMITS: UPPER	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/ WETTED	FISH (SQ RIFFLE	P00L
JULY :	31-AUG.		7 59	.0	.60	6	3	12		36.	0	0.0	24.0	0.50	13.50	100.3	28.23	4.92	23.31
SEP.	11-13/7 ALI		4 15	. 4	99	9	5	20		110.	7 .	-0.8	41.3	0.44	9.10	89.8	18.64	0.76	17.88
JUNE 2	25/73 ALI		0 07	.3	69	11	2	13	-	1.	0	11.5	15,4	0.82	G 14	76 6	33 76	2.03	31.73
		453	9 21	. 3	63	- 11	*	. 13	. 1	1.	•	11,5	13,4	0.04	0.14	70.0	33.70	. 2.00	
UG.	7/73 ALI	338	8 25	. 4	63	10	6	25		225.	0	-5.0	55.0	0.40	6.76	81.7	13.55	1.02	12.5
	10-13/7																		
III .	ALL			1.4	67 82	6	2	10		4.	8 5	6.4		0.71	13.72			1.88	
JUNE	19/74 ALI	461	9 34	1.1	73	.8	В								2.44	61.4			
ULY S	23-25/7 ALI		7 50	.2	71	. 2	1	4		12.	0	-2.9	10.9	0.50	8.12	95.0	128.93	12.55	116.3
			WETTED				FFLE			P00			WETTED		TTED		FFLE		OCL
SECTIO	ON AGE	FIS SQ.		ISH/		ISH/ Q. M		SH/ RE	FISH SQ.		FIS		(GM)	GM/ SQ. M	LB/ ACRE	SQ. M	ACRE		ACRI
	1-AUG			43.4					-						4.27	2.75	24.49	0.58	5.1
	ALI		04 1	43.4	•	0.20	8	23.1	0.0	4	173	. 6	162.0	0.48	4.27	2.75	24.48	0.56	5.1
	11-13/7 ALL	2 0.	05 2	17.1	1	1.31	53	21.5	0.0	6	226	. 4	184.3	0.49	4.36	11.97	106.74	0.51	4.5
JUNE :	25/73 ALL	0.	03 1	19.9	,	0.49	19	93.0	0.0	3	127	.5	82.5	0.18	1.62	3.02	26.97	0.19	1.7
UG.	7/73 ALI	0.	07 2	98.6		0.98	39	63.3	0.0	8	322	. 8	169.1	0.50	4.45	6.66	59.38	0.54	4.8
SEP.	10-13/7	3																	
II	ALL			38.2		0.53		55.5 61.4	0.0		147		81.6	0.28		4.43			2.7
UNE 1	19/74 ALL																		
-																			

Apper SECTI	on AGE	AREA WETTED	cont'd) (SQ.M) RIFFLE	SECT. LEN (M)	C 1	C2	POP.	VAR.	- CONF	PERCENT LIMITS R UPPER	р	MEAN WEIGHT (GM)			FISH (SO	
	16/74		,													
II	ALL	380.8	8.9	71	. 1	1						1.60	52.0	7 4		
	16-19/7															
III	ALL			70 63	3	0	2	0.0	2.0	2.0	1.00	6.44 11.96	10.3	109.15	14.15	95.00
HI V	21/75															
	ALL	371.9	39.5	78	7	4	16	106.5	4.3	37.0	0.43	6.43	81.7	22.77	2.42	20.35
SEP.	18/75															
II	ALL	394.1	27.4	73	15	5	23	11.3	15.8	3 29.	0.67	9.25	85.5	17.52	1.22	16.30
	13-15/70														4	
II	ALL	405.6	.41.1	73	. 7	4	16	106.5	-4.	37.0	0.43	8.33	89.7	24.83	2.52	22.32
	20-23/7							* .		4 4	* :			42.5	1 1	
II	ALL	370.9	24.7	73	11	1	12	0.1	11.3	12.9	0.91	13.30	102.5	30.65	2.04	28.61
	19-21/7									2						
11	ALL	374.3	7.0	69	8	5	21	256.8	-10.	7 53.4	0.38	8.08	89.7	17.55	0.33	17.22
			WETTED		RI	FFLE		POOL		WETTED	. WE	TTED		FFLE		OL .
SECTI	ON AGE	FISH,			ISH/	FISH		FISH/ F	ISH/	(GM)	GM/ SQ. M	ACRE	GM/ SQ. M	LB/ ACRE		ACRE
AUG.	16/74								i.							* :
II	ALL														1 1,43	24
	16-19/7															
II	ALL		1 37.	4	0.07	204	6.0	0.01	42.6	23.9	0.11	0.98	0.85	7.54	0.13	1.12
		0.0	37.	,	0.07	201	0.0	0.01	42.0	23.3	0.11	0.90	0.63	7.54	0.13	
JULY	21/75 ALL	0.04	4 177.	7:	0.41	1673	3.4	0.05 1	198.9	104.9	0.28	2.52	2.66	23.70	0.32	2.82
		• • •			•						0.20		2.00			
II	18/75 ALL	0.00	5 231.	1	0.82	3323	3.3	0.06 2	48.3	208.1	0.53	4.71	7.59	67.73	0.57	5.06
## V	13-15/70															
	ALL		163.	0	0.40	1608	8.3	0.04	81.3	136.1	0.34	2.99	3.31	29.53	0.37	3.33
ED	20-23/76															
	ALL	0.00	132.	0	0.49	1982	2.5	0.03	41.4	160.9	0.43	3.87	6.51	58.10	0.46	4.18
JULY	19-21/7	7	6													
	ALL		230.	7	3.05	12333	3.7	0.06 2	235.1	172.3	0.46	4.11	24.62	219.61	0.47	4,19

Append:	ix table	AREA (S	nt'd) S 0.M) RIFFLE	ECT. LEN (M) C	1 C	POP.	VAR.	CONF	PERCENT LIMITS UPPER	р	(GM).	(HH)	WETTED	ISH (90 RIFFLE	M) POOL	
SEP. 26	6-29/77 ALL	404.5	17.8	66	10		17.3							1.19	23.08	
JUNE 8	/78 ALL	405.0	36.7	70	11	8 40	1916.5	-44.5	125.6	0.27	6.10	82.0	10.04	0.91	9.13	
JULY 2	5/78 ALL	342.6	12.8	71	6	9					7.00	82,3	•			
DCT. 5	/78 ALL	507.7	57.2	71	.6	4 18	360.0	-19.5	55.9	0.33	7.76	88.6	28,21	3.18	25.03	* 1
JUNE 4	/79 ALL	427.8	47.8	71:	8	5 21	256 (8	-10.	53.4	0.38	7.24	90.2	20.05	2.24	17,81	
JULY 2	4/79 ALL	480.2	35.0			2 18					٠	87.5	26.26	1.91	24.35	
SEF. 20	0/79 ALL	414.5	38.5	70	9	.7 41	3969.0	-85.5	166.5	0.22	8.59	90.3	10.23	0.95	9.28	
	N AGE	FISH/	TTED FISH/ ACRE	FIS	H/		SQ. M	FISH/ ACRE	(GM)	GM/ SQ. M		· GM/	FFLE LB/ ACRE		OL LB/ ACRE	
EP. 2	6-29/77 ALL	. 0.04	166.7	0.	84	3406.6		175.3	133.3	0.33	2.94	6.73	60.03	0.35	3.09	
	/78 ALI.	0.10	403.0	1.	10	4447.7	0.11	443.2	245.9	0.61	5.42	6.70	59.77	0.67.	5.96	
JULY 2	5/78 ALL		••													
ocr, 5	/78 ALL	0.04	143.5	0.	31	1273.5	0.04	161.7	139.7	-0.28	2.45	2.44	21.79	0.31	2.77	
JUNE 4	/74 ALL	0-05	201.8	0.	45	1806.2	0.06	227.2	197.1	0.46	4.11	4,12	36.79	0.52	4.63	
JULY 2	4/79 ALL	0.04	154,1	0.	52	2114.4	0.04	166.2	141.9	0.30	2.64	4.05	36.16	0.32	2.84	
SEP. 20	0/79 ALL	0.10	395.4	1.	05	4257.2	0.11	435.9	347.8	0.84	7.48	9.03	80.58	. 0.92	8.25	

SECT1	ON		AREA (	SQ.M)		. :					CONF.			MEAN WEIGHT (GM);	MEAN LENGTH (MM)		FISH (SQ RIFFLE	.M) POOL
JULY	22/	80											:			1,	*	
II		ALL	412.2	27.6	65	21	4	26		2.1	23.0	28.8	0.81	7.91	86.8	15.89	1.06	14.83
SEP.	16/	80																
11			419.5	14.3	68	14	5	22		14.2	14.2	29.3	0.64	9.85	94.5	19.26	0.66	18.61
		+		ETTED		RI								TTED.	RIF	FLE	PO	OL
SECTI	ON	AGE	FISH/ SQ. M			ISH/ Q. M	FISH		FISH/			(GM)	GM/ SQ. M		SQ. M		SQ. M	ACRE
JULY	22/	80														4		
II			0.06	254.7		0.94	3803	. 8	0.07	27	3.0	205.2	0.50	4.44	7.43	66.32	0.53	4.76
SEP.	16/1	80																
II		ALL	0.05	210.1		1.52	6163	.3	0.05	21	7.5	214.4	0.51	4.56	14.99	133.75	0.53	4.72

Appendix table VI. Upper Carnation Creek(IX) cutthroat.

,				SECT.						95	PERC	ENT		MEAN	MEAN	:		
SECTION	AGE	AREA WETTED	(SQ.M) RIFFLE	LEN (M)	C1	C2	POP:		VAR.	LOW	F. L	IMITS	P				FISH (S	
SEP. 9/													٠.				*	
IX		574.5	-	158		1	5		1.0		. 3			0.48		107.72		
,	I					15			932.0			51.9		6.24		11.72		
	III				19	15	90	10	787.7	-117	. 5 2	98.0	0.21		109:1			
						•								00.00	10110.			
AUG. 3/						:								*				*1
ĮΧ	I	233.4	48.0	99		10	42		43.2				0.60		73.7		1.15	
	11				27		35			. 30	. 5	38.9	0.78	17.88	111.9	6.72	1.38	5.34
SEP. 14	1/72					4,5	.,								- 1			
IX	0	233.4	48.0	99	1	1		4	•					0.47	30.0		4 1 1	
	I				28	6 .			4.1	. 31	. 6	39.7	0.79	7.22	81.8	6.55	1.35	5.20
	II				16	3	20		1.5	. 17	. 2	22.2	0.81	21.28	118,3	11.85	2.44	9.41
JUNE 28	/72																	
IX	. 1	391 4	77.7	107	3.				0.0	2	0	2.0	1 00	2 65	65.7	120 47	25 90	104.57
	II	331.4	**.*	107	20	11	44		228.7	. 14	.2	74.7	0.45	11.00			1.75	
	III.				. 5	11.	13		112.5	-8	.7	33.7	0.40	28.00	144.5			
SECTION AGE		FISH	WETTED FISH A ACRE	1/ F	RI ISH/	FFLE FISH ACRE	/	FISH	POOL F	ISH/	TOTA	TED L WT	GM/	TTED LB/ ACRE	GM/ SQ. M	FFLE LB/ ACRE	GM/ -	DOL LB/ ACRE
SEP. 9/	71	-								7							-	
X	0	0.0	37. 345. 635.	6								2.6	0.00	0.04				
	I	0.0	345.	2								5.8	0.53	4.75				
	III	0.16	635.	8							139	9.8	2.44	21.73				is.
	111																	
NUG. 3/	72																	*
X.	1	0:18	722.	5	0.87	3513	.0	0.2	2 9	09.5	21	8.8	0.94	8.36	4.56	40.65	1.18	10.52
	II	0.15	722. 601.	9	0.72	2926	. 8	0.1	9 7	57.8	62	0.7	2.66	23.72	12.93	115.35	3.35	29.86
EP. 14																		
X												~.						
		0.15	617.	9	0.74	3004	.6	0.1	9 7	77.9	25	7 3	1 10	9.83	5.36	47.81	1 39	12.38
	II	0.0			0.41	1660				29.9		9.1		16.02				20.16
INE CO	170																	
UNE 28	/73 I	0.0	31.	0	0.04	484												
~	11	0.0	459.	5	0.04	156 2314	. 3	0.0	4 =	38.7 73.4	40	8.0		0.18	6.29		0.03	0.23
				9					7 5	13.4	48	0.9	1.25	11.14	6.29	56.12	1.55	13.90
	III	0.03	129.	2	0.16	65.1	. 1	0.0	4 1	61.3	35	0.0	0.89	7.98	4.50	40.18	1.12	9.95

Append1:	x tab	le VI (c	ont'd)	SECT	14 12				1			95 P	ERCENT		MEAN	MEAN		13 11 1	
		AREA (S	Q.M)	LEN		C2		OP.		AR.	C	ONF.	LIMITS		WEIGHT (GM)	LENGTH	AREA/ WETTED	FISH (SO RIFFLE	.M)
AUG. 31/	73					· ·			9							*			
IX		158.9	25.2	107	34.	3		37		0.4		36.0	38.6	0.91	0.29	31.8	.4.26	0.68	3.5
	1				12	3		16		3.0		12.6		0.75	7.36	. 91.1	9.93	1.58	8.3
	11				18	2.		20		0.4		19.0	21.5	0.89	14.11	114.5		1.24	6.6
1	III				5	2		8		8.6		2.5	14.2	0.60	29:09	143.4	19.07	3.02	16.0
JUNE 19/	74		2.55							,	:					٠			
IX	1	270.4	51.4	71	5	4		25	360	0.0	-1	95.0	145.0	0.20	2.25	60.7	10.82	2.06	8.7
	11	2.0.4			9	4		16		27.0		5.8			13.45	109.0	16.69	3.17	13.5
	III				6	1		7		0.4	*	5.9				138.7	37.56	7.14	30.4
SEP. 20/		070:6		7.0											0.55	20 -	7 00	4 40	5.9
IX	0	270.4	51.4	71	21	9		37		51.7		22.4	51.1		0.57	38.7	7.36	1.40	6.0
	II	4		*	17	9		36		18.6		11.7	60.5		4.22	75.7	15.62	2.97	12.6
	III				. 4	0		4		0.5		4.0		1.00	28.62		67.60	12.85	54.7
						U		4		0.0		4.0	4.0	1.00	20.02	140.0	07.00	12.00	04.7
JUNE 18/	75																		
IX ·	1	287.5	49.7	73	17	3		21		1.4		18.3	23.0	0.82	3.10	65.3	13.93	2.41	11.5
		:			14			18		2.0					14.03	110.5	16.14	2.79	13.3
	III				. 3	. 0		3.		0.0		3.0	3.0	1.00	28.42	147.0	95.83	16.57	79.2
SECTION	AGE .	FISH/ SQ. M	FISH, ACRE		ISH/		SH/		SQ: M		CRE		(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	ACR
AUG. 31/	73																		
IX	0	0.23	949.	7	1.48	59	188.	6	0.28	11	28.	3	10.6	0.07	0.60	0.42	3.76	0.08	0.7
	I	0.10	407.1		0.63	25	69.	5	0.12	4	84.	3	117.8	0.74	6.61	4.67	41.70		7.8
	II	0.13	515.		0.80		52.		0.15		13.0		285.7	1.80	16.04	11.34	101.14		19.0
	III	0.05	212.	2 .	0.33	13	138.	3	0.06	. 2	52.	2	242.4	1.53	13.61	9.62	85.82	1.81	16.1
JUNE 19/	74																		
	I	0.09	374.	2	0.49	15	168	4	0.11	4	62.0		56.3	0.21	1.86	1.10	9.77	0.26	2.2
	II	0.06	242.1		0.32		75.		0.07		99.		217.9	0.81	7.19	4.24	37.81		8.8
	III	0.03	107.1	В	0.14		66.	9	0.03	1	33.	1	177.5	0.66	5.85	3.45	30.80	0.81	7.2
	-																		
ren and			550.0	2	0.71	0.0	93.		0.17		79.		20.9	0.08	0.69	0.41	3.62	0.10	0.8
		0.14		e e			44.		0.16		67.0		152.5	0.56	5.03	2.97	26.47		6.2
	0.	0.14		7	0.70	4.0					19.1		248.3	0.92	8.19	4.83	43.09		10.1
	0.	0.13	540.		0.70	4.5	162	7	$O \cdot O^{\otimes}$	2.4									
	0.			0	0.70		162.		0.08		73.5		114.5	0.42	3.78	2.23	19.87		
IX	O. II III	0.13	540. 259.	0	0.34									0.42	3.78				
JUNE 18/	0 I II III 75	0.13 0.06 0.01	540.1 259.6 59.8	9	0.34	3	14.	9	0.02		73.5	)	114.5			2.23	19.87	0.52	4.6
SEP. 20/ IX JUNE 18/	0 I II III 75 I	0.13 0.06 0.01	540.1 259.6 59.8	9	0.34	16	80.	9	0.02	3	73.5 51.5	3	114.5	0.22	1.98	1.29	19.87	0.52	2.4
JUNE 18/	0 I II III 75	0.13 0.06 0.01	540.1 259.6 59.8	9	0.34	16	14.	9	0.02	3	73.5	3	114.5			2.23	19.87	0.52 0.27 1.05	4.6

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			AREA (	2	ECT. LEN (M)	C1	C2	POP.		VAR.	95 CON LOW	F.	RCENT LIMITS UPPER	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (S	Q.M) POOL
												-							1.1
SEP.	20/	75	270.4	51.4	71	14	4	20		5.6	. 14	8	24.4	0.71	0.48	38.4	13.80	2.62	11.17
		I	21014	01.4		11	5	20		37.		. 9		0.55	4.03	.74.7	13.41	2.55	10.86
		II				20	3	24		1.0	21	. 5	25.5	0.85	12.81	109.9.	11.49	. 2.18	9.31
		III				2	0	2		0.0	2	.0	2.0	1.00	36.85	158.5	135.20	25.70	109.50
JUNE	22/	76				٠													:
IX		1	311.1	104.7	73	8	2	11		2.0	7	. 9 .	13.5	0.75	2.15	59.3	29.17	9.82	19.35
		II				3	7	_				_			9.69	97.6	****		48 00
		III				3	1	. 5		2.3	3 1	. 5	7.5	0.67	20.71	127.5	69.13	23.27	45.87
SEP.	24/	76							4,							•			
IX		0	271.7	81.3	71	26 .	13	52		156.0			77.0		0.52	38.6	5.23	1.56	3.66
		I				15	8	32		137.5		.7		0.47	6.08	84.0	8.45	2.53	5.92
		II				10	3	14		4.5		. 9		0.70	16.32	116.2	19.02	5.69	13.33
		III				2	0	2		0.0	2	.0	2.0	1.00	41.22	164.0	135.85	40.65	95.20
JUNE	10/																		
IX		I	311.0	120.5	68	12	9	48	3	024.0				0.25	2.34	61.7	6.48	2.51	
		II				11	2	13		1.0			15.4		8.23	94.5	23.13	1.52	21.61
		III				1	0	1		0.0	, 1	.0	1.0	1.00	36.91	163.0	311.00	20.50	290.00
				ETTED			FFLE			POOL	-		ETTED	. WE		RI			OOL
			FISH/	FISH/		ISH/	FISH	/ .	FISH				TAL WT	GM/	LB/		LB/	GM/	LB/
SECT	ION	AGE	SQ. M	ACRE	S	Q. M	ACRE		SQ.	М	ACRE		(GM)	SQ. M	ACRE	SQ. M	ACRE	SQ. M	ACRE
EP.	20/	75														1.5		1	1 %
X		0	0.07	293.3	1	0.38	1543	. 2	0.0	9 .	362.2		9.3	0.03	0.31	0.18	1.62	0.04	0.38
		I	0.07	301.8		0.39	1587		0.0		372.7		81.3	0.30		1.58	14.11		
		II	0.09	352.2		0.46	1852		0.1		434.8		301.5	1.12		5.87	52.32		
		III	0.01	29.9	1	0.04	157	. 5	0.0	1	37.0		73.7	0.27	2.43	1,43	12.79	0.34	3.00
	22/																		
IX		1	0.03	138.8		0.10	412	. 3	0.0	5	209.1		22.9	0.07	0.66	0.22	1.95	0.11	0.99
		II	0.01				455								010-	0.00	7 0	0.48	4 00
		III	0.01	58.5		0.04	173	. 9	0.0	2	88.2		93.2	0.30	2:67	0.89	7.94	0.45	4.03
SEP.	24/																		
IX		0	0.19	774.5		0.64	2588		0.2		1105.3		27.1	0.10		0.33	2.98		
		I	0.12	478.8		0.40	1600	_	0.1		683.2		195.3	0.72		2.40	21.43		
		11	0.05	212.8		0.18	711		0.0		303.6		233.1	0.86		2.87	25.58		
		III	0.01	29.8		0.02	. 99	. 6	0.0	1	42.5		82.4	0.30	2.71	1.01	9.04	0.43	3.86
	10/																		
IX ·		I	0.15	624.6		0.40	1612	. 1	0.2		1019.7		112.4	0.36		0.93	8.32		
		II	0.04	175.0		0.66	2654		0.0		187.3		110.7	0.36		5.40			
		III	0.00	13.0		0.05	197		0.0		13.9		36.9	0.12	1.06	1.80	16.06	0.13	1.13

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												<del></del>			-			
SECTIO	N AGE		(SQ.M) RIFFLE	SECT. LEN (M)			OP.		VAR.	95 CON LOW	F.	RCENT LIMITS UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SC RIFFLE	O.M) POOL
DCT.	10/79																: .	.***
IX	0	205.4	103.4	72		14	59.	40	584.7	.10	.4	107.1	0.39	1.08	48.8	3.49	1.76	1.74
	I		•		24	7	34		10.5		.4		0.71	6.69	88.0	6.06	3.05	3.01
	11				6	0	6		0.0		.0		1.00	20.06	131.0	34.23	17.23	17.00
	111				. 1	0	1		0.0	1	.0	1.0	1.00	32.07	157.0	205.40	103.40	102.00
SEP. 2	24/80									1	4					12 1		
IX	0	298.6	100.5	78	28	7	37		6.9	32	. 1	42.6	0.75	1.02	46.0	8.00	2.69	5.31
	- I	•			21	7	32		15.7		.6		0.67	7.20	88.1	9,48	3.19	6.29
	11				. 7	3	12		17.2	3	. 9	20.6	0.57	20.32	126.8	.24 . 38	8.20	16.17
	•		VETTED.		RI	FFLE			POOL		v	ETTED	. WE	TTED	RI	FFLE	Pr	OOL
SECTIO	N AGE	FISH,	/ FISH		FISH/	FISH/		FISH	1/ F	ISH/	TO	TAL WT	GM/ SQ. M	LB/	GM/	LB/	GM/	LB/
-					. ,													
OCT.							-			:		:	÷			-		
IX	o .	0.29			0.57	2300.		0.5		32.1		63.5	0.31		0.61			
	11	0.16			0.33	1326. 234.		0.3		38.1		226.6	1.10		2.19			19.82
	III	0.00			0.06	39.		0.0		39.7		120.3	0.59		0.31			10.52
	***	0.00	, 19.	,	0.01	39.	1	0.0	71	39.7		32.1	0.16	1.39	0.31	2.11	0.31	2.80
SEP. 2	4/80																	
IX	0	0.13	506.	0	0.37	1503.	4	0.1	9 7	62.7		37.9	0.13	1.13	0.38	3.37	0.19	1.71
		0.1			0.31	1268.		0.1		43.5		226.8	0.76	6.77	2.26			10.21
	1	V. I	420.	<b>a</b>														

Appendix table VII. Carnation Creek Tributary C cutthroat.

ECTIO	N AGE	AREA (S	Q.M)	SECT. LEN (M)			OP.		AR.	CONF .	ERCENT LIMITS UPPER		MEAN WEIGHT (GM)		AREA/F		M) POOL	
UG. 3	/72 •			• :			**. *						74.				*	:
	. 0	71.8	36.7	441	- 4	1.	5		1.0	3.3		0.75	0.69	38.4	13.46	6.88	6.58	
	I				37	6	44		2.3	41.1	47.2	0.84	6.20		1.63	18.35	17,55	
	. 11	•			2	0	2	: .	0.0	. 2.0	2.0	1.00	18.50	131.5	35.80	18.35	17133	
JNE 2	6/73							*										
	I.	95.4	0.0	44	4	1	5		1.0	3.3	. 7.3		4.10		17.89			
	11				7	. 4	16		06.5	-4.3	37.0	0.43	8.50	94.5		0.00		
	III.				1	0	1 .		0.0	1.0	1.0	1.00	37.00	158.0	95.40	0.00	95.40	
	0/73						*:		1.				;					
. T		58.3	0.0	43	13	7	28	11	27.8	5.6	50.B	0.46	0.68	43.0	2.07	0.00	2.07	*
	1		0.0	40	15	2	17	•	27.8 0.5 3.7	15.8	18.8	0.87	6.02	83.3	3.37	0.00	3.37	
	II		.*		11	3	15		3.7	11.3	. 19.0	0.73	12.98	108.9	3.85	0.00	3.85	
	III		**		0	1							52.00	159.0			* *	1. 16
	- 1	- 5									1 1					2 2		
NE 2	0/74			40	-	-							0.24	26.3				
	0	94.4	0.0	48	. 5	. 7	6		0.6	4.7	7.8	0.80	4.43	73 2	15.10	0.00	15.10	
	iı				6	1	7		0.4	5.9	8.5	0.83	13.25	109.4	13.11	0.00	13.11	
	iii				2		2		0.0	2.0	2.0		40:87		47.20	0.00	47.20	
	N AGE	FISH/ SQ. M	FISH, ACRE		ISH/ Q. M	FFLE FISH/ ACRE		FISH/ SQ M		SH/ T	OTAL WT	GM/	LB/ ACRE	. GM/	FFLE LB/ ACRE	GM/		
					_													
JG. 3	- 5																	
IG. 3	/72	0.07	300.		0.15	588.		0.15		4.9		0.05					0.94	
G. 3	/72 0 I		2489.	1	1.20	4869.	8	1.26	509	1.8	273.8	3.81	34.02	7.46	66.55	7.80	69.58	
G. 3	/72	0.07 0.62 0.03		1			8		509		273.8	3.81			66.55	7.80		
G. 3	/72 0 1 11		2489.	7	1.20	4869. 220.	8	1.26	509	1.8	273.8	3.81	34.02	7.46	66.55	7.80	69.58	
IG. 3	/72 0 I		2489.	7	1.20	4869. 220.	5	1.26	509 23	1.8	273.8	3.81 0.52	34.02 4.60	7.46	66.55 8.99	7.80	9.40	
G. 3	0 I II 6/73 I II	0.62 0.03 0.06 0.17	2489. 112. 226.: 692.:	2 9	0.00	4869. 220.	5	1.26 0.06 0.06 0.17	509 23 22 69	1.8 0.6 6.2 2.9	273.8 37.0 21.9	0.52 0.52 0.23	34.02 4.60 2.04 12.98	7.46 1.01 0.00 0.00	66.55 8.99 0.00 0.00	7.80 1.05 0.23 1.46	2.04 12.98	
G. 3	0 I II 6/73 I	0.62	2489. 112.	2 9	1.20	4869. 220.	5	0.06	509 23 22 69	1.8 0.6 6.2 2.9	273.8	0.52 0.52 0.23	34.02 4.60 2.04 12.98	7.46 1.01 0.00 0.00	66.55 8.99 0.00 0.00	7.80 1.05 0.23 1.46	9.40	
G. 3	0 1 11 6/73 1 11 111	0.62 0.03 0.06 0.17	2489. 112. 226.: 692.:	2 9	0.00	4869. 220.	5	1.26 0.06 0.06 0.17	509 23 22 69	1.8 0.6 6.2 2.9	273.8 37.0 21.9	0.52 0.52 0.23	34.02 4.60 2.04 12.98	7.46 1.01 0.00 0.00	66.55 8.99 0.00 0.00	7.80 1.05 0.23 1.46	2.04 12.98	
G. 3	/72 0 1 11 6/73 1 11 111	0.62 0.03 0.06 0.17 0.01	2489. 112. 226. 692.	2 9 4	1.20 0.05 0.00 0.00 0.00	4869. 220. 0. 0.	8 5 0 0	1.26 0.06 0.06 0.17 0.01	22 69 4	1.8 0.6 6.2 2.9 2.4	21.9 138.8 37.0	3.81 0.52 0.23 1.46 0.39	2.04 12.98 3.46	7.46 1.01 0.00 0.00 0.00	0.00 0.00 0.00	7.80 1.05 0.23 1.46 0.39	2.04 12.98	
G. 3	0 1 11 6/73 1 11 111	0.62 0.03 0.06 0.17	2489. 112. 226.: 692.:	2 9 4	0.00	4869. 220.	0000	1.26 0.06 0.06 0.17	22 69 4	1.8 0.6 6.2 2.9 2.4	273.8 37.0 21.9 138.8 37.0	3.81 0.52 0.23 1.46 0.39	34.02 4.60 2.04 12.98 3.46	7.46 1.01 0.00 0.00	0.00 0.00 0.00	7.80 1.05 0.23 1.46 0.39	2.04 12.98 3.46 2.93 15.93	
G. 3	/72 0 1 11 6/73 1 11 111 0/73 0 1 11	0.62 0.03 0.06 0.17 0.01	2489. 112. 226.: 692.: 42.4	2 9 4	1.20 0.05 0.00 0.00 0.00	4869. 220.	0000	1.26 0.06 0.06 0.17 0.01	22 69 4	1.8 0.6 6.2 2.9 2.4	273.8 37.0 21.9 138.8 37.0	3.81 0.52 0.23 1.46 0.39	2.04 12.98 3.46	7.46 1.01 0.00 0.00 0.00	0.00 0.00 0.00	7.80 1.05 0.23 1.46 0.39	2.04 12.98 3.46	
G. 3	/72 0 I II 6/73 I III 11I 0/73 0 I	0.62 0.03 0.06 0.17 0.01	2489. 112. 226. 692. 42. 1955.	2 9 4	1.20 0.05 0.00 0.00 0.00 0.00	4869. 220.	0000	1.26 0.06 0.06 0.17 0.01	22 69 4	1.8 0.6 6.2 2.9 2.4	273.8 37.0 21.9 138.8 37.0	3.81 0.52 0.23 1.46 0.39	34.02 4.60 2.04 12.98 3.46 2.93 15.93	7.46 1.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00	7.80 1.05 0.23 1.46 0.39	2.04 12.98 3.46 2.93 15.93	
G. 3	/72 0 1 11 6/73 1 11 111 0/73 0 1 11 111	0.62 0.03 0.06 0.17 0.01	2489. 112. 226. 692. 42. 1955.	2 9 4	1.20 0.05 0.00 0.00 0.00 0.00	4869. 220.	0000	1.26 0.06 0.06 0.17 0.01	22 69 4	1.8 0.6 6.2 2.9 2.4	273.8 37.0 21.9 138.8 37.0	3.81 0.52 0.23 1.46 0.39	34.02 4.60 2.04 12.98 3.46 2.93 15.93	7.46 1.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00	7.80 1.05 0.23 1.46 0.39	2.04 12.98 3.46 2.93 15.93	
G. 3	/72 0 1 11 6/73 1 11 111 0/73 0 1 11 111	0.62 0.03 0.06 0.17 0.01 0.48 0.30 0.26	2489. 112. 226. 692. 42. 1955.	2 9 4	1.20 0.05 0.00 0.00 0.00 0.00	4869. 220.	0000	1.26 0.06 0.06 0.17 0.01	22 69 4	1.8 0.6 6.2 2.9 2.4	273.8 37.0 21.9 138.8 37.0	3.81 0.52 0.23 1.46 0.39	34.02 4.60 2.04 12.98 3.46 2.93 15.93	7.46 1.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00	7.80 1.05 0.23 1.46 0.39	2.04 12.98 3.46 2.93 15.93	
G. 3	0 I II III 0/73 O I II III III 0/74 O	0.62 0.03 0.06 0.17 0.01 0.48 0.30 0.26	2489 112.1 226.6 692.1 42.1 1955.1 1201.1	1 7 2 9 4 4 2 4 9	0.00 0.00 0.00 0.00 0.00 0.00	4869. 220. 0. 0. 0. 0.	8 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.26 0.06 0.06 0.17 0.01 0.48 0.30 0.26	222 69 4 195 120	1.8 0.6 6.2 2.9 2.4 5.2 1.4	273.8 37.0 21.9 138.8 37.0 19.2 104.1 196.4	3.81 0.52 0.23 1.46 0.39 0.33 1.79 3.37	34.02 4.60 2.04 12.98 3.46 2.93 15.93 30.04	7.46 1.01 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	7.80 1.05 0.23 1.46 0.39 0.33 1.79 3.37	2.04 12.98 3.46 2.93 15.93 30.04	
NE 2	/72 0 1 11 6/73 1 11 111 0/73 0 1 11 111	0.62 0.03 0.06 0.17 0.01 0.48 0.30 0.26	2489. 112. 226. 692. 42. 1955.	1 7 2 9 4 4 9 9 9	1.20 0.05 0.00 0.00 0.00 0.00	4869. 220.	8 5 0000	1.26 0.06 0.06 0.17 0.01	509 23 222 69 4 195 120 104	1.8 0.6 6.2 2.9 2.4	273.8 37.0 21.9 138.8 37.0	3.81 0.52 0.23 1.46 0.39	34.02 4.60 2.04 12.98 3.46 2.93 15.93 30.04	7.46 1.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	7.80 1.05 0.23 1.46 0.39	2.04 12.98 3.46 2.93 15.93	

Appendix table VIII. Carnation Creek Tributary 1600 coho.

SECT	ON AGE	AREA (	SQ.M)			C2	POP.		/AR.	CONF	PERCENT , LIMITS R UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SO	
AUG.	3/72																
I	0	136.5	0.0	40	184	61	275				0 298.5				0.50	0.00	0.50
	1				26	5	32		2.7	28.	9 35.5	0.81	6.61	76.6	4.24	0.00	4.2
SEP.	13/72	•															
1		136.5	0.0	40	150	36	197	* *	32.1	. 186 .	0 208.7	0.76	1.97	50.8	0.69	0.00	0.6
	I		+* 42		24	9	38	~ .	30.4	27.	4 .49.4	0.63	7.25	80.0	3.55	0.00	3.5
cra	44/70																
	11/73	136.5	0.0	40	88	29	131		62.9	448	4 147.1	0 67	4 40	47.6	1.04	0.00	1.0
•	I	130.3		. 40	25	10	42		43.2		5 54.8			75.9	3.28	0.00	
	20/74																
	0	101.2	. 0.0	35	150	53	232		44.9		9 256.0		1.81	42.9 68.2	2.64	0.00	2.6
		,			. 21		30		12.5	31.	3 .45.4	0.70	4.03	00.2	2.04	0.00	2.0
	19/74	• * •.					•			**						٠.	
I	0	127.0	0.0	40	140		187		34.6		9 198.4			49.2	0.68	0.00	0.6
	. 1				19	. 4	24		2.6	20.	8 27.3	0.79	5.50	76.4	5.28	0.00	5.28
													*				
		W				FFLE			POOL		WETTED		TTED	RIF	FLE		OL
	ON AGE	FISH/ SQ. M	FISH/		RI ISH/ Q. M	FFLE FIS ACE		FISH/	F	ISH/	WETTED TOTAL WT (GM)	GM/	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/
SECTI	ON AGE	FISH/	FISH/		ISH/	FIS		FISH/	F		TOTAL WT	GM/	LB/	GM/	LB/	GM/	LB/
SECTI		FISH/	FISH/ ACRE	SC	ISH/ Q. M	FIS	E	FISH/ SQ. A	F A	CRE	(GM)	GM/ SQ. M	LB/ ACRE	SQ. M	ACRE	GM/ SQ. M	LB/ ACRE
SECTI	ON AGE	FISH/ SQ. M	FISH/ ACRE 8160.8	50	ISH/	FIS		FISH/	F A		TOTAL WT	GM/ SQ. M	LB/	GM/	LB/	GM/ SQ. M	LB/ ACRI
AUG.	3/72 O I	FISH/ SQ., M	FISH/ ACRE 8160.8	50	D. 00	FIS	0.0	FISH/ SQ. N	F A	60.8	TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	SQ. M	ACRE	GM/ SQ. M	LB/
AUG.	3/72 O I 13/72	FISH/ SQ., M 2.02 0.24	8160.6 954.4	3 (	0.00 0.00	FIS	0.0	2.02 0.24	810 810 810	60.8 54.4	377.1 212.8	GM/ SQ. M 2.76 1.56	LB/ ACRE 24.64 13.90	GM/ SQ. M 0.00 0.00	0.00 0.00	GM/ SQ. M 2.76 1.56	LB/ ACRI 24.64 13.90
AUG.	3/72 O I	FISH/ SQ., M	8160.6 954.4	3 (	D. 00	FIS	0.0 0.0	2.02 0.24	810 810 810 810 810 810	60.8 54.4	377.1 212.8	GM/ SQ. M 2.76 1.56	24.64 13.90	GM/ SQ. M	0.00 0.00	GM/ SQ. M 2.76 1.56	24.64 13.90
AUG.	3/72 0 1 13/72 0 1	FISH/ SQ. M 2.02 0.24	8160.6 954.4	3 (	0.00 0.00	FIS	0.0 0.0	2.02 0.24	810 810 810 810 810 810	60.8 54.4	377.1 212.8	GM/ SQ. M 2.76 1.56	LB/ ACRE 24.64 13.90	GM/ SQ. M 0.00 0.00	0.00 0.00	GM/ SQ. M 2.76 1.56	24.6 13.9
AUG.	3/72 0 1 13/72 0 1	2.02 0.24 1.45 0.28	8160.8 954.4 5851.6	SG (6)	0.00 0.00 0.00	FIS	0.0 0.0 0.0	2.02 0.24 1.48 0.28	810 A10 S10 S10 S10 S10 S10 S10 S10 S10 S10 S	60.8 54.4 51.6 38.5	377.1 212.8 388.8 278.4	GM/ SQ. M 2.76 1.56 2.85 2.04	24.64 13.90 25.41 18.19	0.00 0.00 0.00	0.00 0.00 0.00	GM/ SQ. M 2.76 1.56 2.85 2.04	24.64 13.90 25.4 18.15
AUG.	3/72 O I 13/72 O I 11/73	2.02 0.24 1.45 0.28	8160.6 954.4 5851.6 1138.5	\$6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6	0.00 0.00 0.00	FIS	0.0	2.02 0.24 1.48 0.28	811 A S S S S S S S S S S S S S S S S S S	60.8 54.4 51.6 38.5	377.1 212.8 388.8 278.4	GM/ SQ. M 2.76 1.56 2.85 2.04	24.64 13.90 25.41 18.19	GM/ SQ. M 0.00 0.00 0.00	0.00 0.00 0.00	GM/ SQ. M 2.76 1.56 2.85 2.04	24.6 13.9 25.4 18.11
AUG.	3/72 0 1 13/72 0 1	2.02 0.24 1.45 0.28	8160.8 954.4 5851.6	\$6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6	0.00 0.00 0.00	FIS	0.0 0.0 0.0	2.02 0.24 1.48 0.28	811 A S S S S S S S S S S S S S S S S S S	60.8 54.4 51.6 38.5	377.1 212.8 388.8 278.4	GM/ SQ. M 2.76 1.56 2.85 2.04	24.64 13.90 25.41 18.19 9.47 14.18	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M 2.76 1.56 2.85 2.04	24.6 13.9 25.4 18.11
AUG.	3/72 O I 13/72 O I 11/73	2.02 0.24 1.45 0.28	8160.6 954.4 5851.6 1138.5	\$6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6	0.00 0.00 0.00	FIS	0.0	2.02 0.24 1.48 0.28	811 A S S S S S S S S S S S S S S S S S S	60.8 54.4 51.6 38.5	377.1 212.8 388.8 278.4	GM/ SQ. M 2.76 1.56 2.85 2.04	24.64 13.90 25.41 18.19	GM/ SQ. M 0.00 0.00 0.00	0.00 0.00 0.00	GM/ SQ. M 2.76 1.56 2.85 2.04	24.6 13.9 25.4 18.1
AUG.	3/72 0 1 13/72 0 1 11/73 0 1 20/74	FISH/ SO. M 2.02 0.24 1.45 0.28 0.96 0.31	8160.6 954.4 5851.6 1138.5 3891.5 1235.3	S (3 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	0.00 0.00 0.00	FIS	0.0	2.02 0.24 1.48 0.28	8 11 A 9 58 11 12 12 12 12 12 12 12 12 12 12 12 12	60.8 54.4 51.6 38.5	377.1 212.8 388.8 278.4	GM/ SQ. M 2.76 1.56 2.85 2.04 1.06 1.59	24.64 13.90 25.41 18.19 9.47 14.18	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M 2.76 1.56 2.85 2.04	24.64 13.90 25.4 18.19
GEP.	3/72 O I 13/72 O I 11/73 O I 20/74	2.02 0.24 1.45 0.28 0.96 0.31	8160.6 954.4 5851.6 1138.5 3891.5 1235.3	S (3 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	0.00 0.00 0.00 0.00	FIS	0.0	2.02 0.24 1.48 0.28	8 11 A 38 11:	60.8 54.4 51.6 38.5 91.5 35.3	377.1 212.8 388.8 278.4 145.0 216.9	GM/ SQ. M 2.76 1.56 2.85 2.04 1.06 1.59	24.64 13.90 25.41 18.19 9.47 14.18	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M 2.76 1.56 2.85 2.04 1.06 1.59	24.64 13.90 25.4 18.10 9.41 14.10
SEP.	3/72 0 1 13/72 0 1 11/73 0 1 20/74 0	FISH/ SO. M 2.02 0.24 1.45 0.28 0.96 0.31	8160.6 954.4 5851.6 1138.5 3891.5 1235.3	S (3 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	0.00 0.00 0.00 0.00	FIS	0.0	2.02 0.24 1.48 0.28 0.96 0.31	8 11 A 38 11:	60.8 54.4 51.6 38.5 91.5	377.1 212.8 388.8 278.4 145.0 216.9	GM/ SQ. M 2.76 1.56 2.85 2.04 1.06 1.59	24.64 13.90 25.41 18.19 9.47 14.18	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M 2.76 1.56 2.85 2.04 1.06 1.59	24.6 13.9 25.4 18.1 9.4 14.1
SEP.	3/72 0 1 13/72 0 1 11/73 0 1 20/74	FISH/ SO. M 2.02 0.24 1.45 0.28 0.96 0.31	8160.8 954.4 5851.6 1138.8 3891.8 1235.3	S	0.00 0.00 0.00 0.00	FIS	0.0	2.02 0.24 1.48 0.28 0.96 0.31	8 11 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60.8 54.4 51.6 38.5 91.5	377.1 212.8 388.8 278.4 145.0 216.9	GM/ SQ. M 2.76 1.56 2.85 2.04 1.06 1.59	24.64 13.90 25.41 18.19 9.47 14.18	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M 2.76 1.56 2.85 2.04 1.06 1.59	24.66 13.90 25.4 18.11 9.41

SECTI	ON	AGE		SQ.M)	SECT LEN (M)		C2	POP.							P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SC RIFFLE	PGO
JUNE	17/7	75		**																
1		0	98.7	0.0	39	114	39	. · 173	,	95	.6		7 192.1 5 24.			0.85 3.41	42.8	0.57 5.26	0.00	5.20
SEP.	17/7	75																	•: .	
1		0	88.5	0.0	35	143	32	184		24	.1	174.	4 194.	0.0	78 67	1.55	52.0 79.3	0.48		4.9
JUNE	22/2	76																		
1	23/1	Ô	94.0	0.0	35	152	40	206	1	48	4	192	9 219.	7 .0	74	0.75	41.9	0.46	0.00	0.4
_		I ·				23	11	.44					6 64.6			2.79	60.6	2.13	0.00	2.1
			1				٠.					., .	1 *	φ.						
SEP.	22/7	76	97.3													; ;				* 1.
•		ĭ	97.3	0.0	. 36	110	34	159			.6		B 17.1			4.45	72.3	5.96	0.00	5.9
		-		ETTED			FFLE			PO			WETTED		WE	TTED	RI	FLE	PO	OL
SECTI		AGE	FISH/			ISH/	FIS		FISH SQ.				(GM)		M/	LB/ ACRE	GM/ SQ. M	LB/ ACRE	SQ. N	ACRI
JUNE	17/7	75	٠.,		-	**											*, *		* •	* . *,
I		0	1.76	7105	0	0.00		0.0	1.7	16	710	5.0	147.8	1	.50	13.36	0.00	0.00	-1.50	13.30
		1	0.19	769	.9	0.00		0.0	0.1	9	76		64.0		. 65	5.79	0.00	0.00	0.65	
SEP.	47/7																	5		
I.		Ö	2.08	8424	4	0.00		0.0	2.0	\a	042	4.4	286.3		22	28.85	0.00	0.00	9 99	28.8
		ĭ	0.20			0.00		0.0	0.2		82	3.1	100.2			10.10	0.00		1.13	
*****	/-		+ 1														3.00			
JUNE		0	2.19	8881	-	0.00		0.0												
•		ĭ	0.47			0.00		0.0	2.1		888	7.9	154.6			14.67	0.00	0.00		14.67
				,	•	0.00		Ų. U	0.4		,03		122.0			11.00	0.00	0.00	1.01	11.00
SEP.	22/7	6																	,	
		0	. 1.64			0.00		0.0	1.6		662					18.86	0.00	0.00	2.11	18.86
		*	0.17	679.		0.00		0.0	0.1							6.67	0.00	0.00	0.75	

SECTION	AGE		(SQ.M) RIFFLI		EN		2	POP.		AR. N	CO	5 PE NF. WER	RCENT LIMITS UPPER	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/ WETTED	FISH (SC RIFFLE	P00L
AUG. 3/7		136.5			40	6	3	12		36.0		0.0	24.0	0.50	17 00	444.9	11,38	0.00	11.38
	0	136.5	0.0	,	40		3	12	٠	36.0	'	0.0	24,.0	0.50	17.00	111.3	11,36.	0.00	, , , , ,
SEP. 13/																* x			
I	I	136.5	0.0	)	40	1	0	1		0.0		1.0		1.00	10.73	95.0	136.50	0.00	136.50
	II	1,,		. "."		2	0	- 4		0.0		4.0			72.36		34.13	0.00	68.25
	111					2	U	2		0.0	•	2.0	2.0	1.00	12.30	101.0	00.20	. 0.00	00.20
SEP. 11/																			
I	11 .	136.5	0.0	), . (	40	3 .	3	:-		1 .				** *	42.00	166.2			
JUNE 20/	174			7.5	: "								•				. ' .	* .	: .
T ZU/	1	101.2	0.0		35	4	2	8		24.0		1.8	17 B	0.50	3 43	63.8	12.65	0.00	12.65
1	II		0.0	•		2	õ	2		0.0				1.00		118.0	50.60	0.00	
	III			. 4	9	2	1	4		12.0		2.9			24.30	137.7	25.30	0.00	25.30
cen' in											.*								
SEP. 19/	0	127.0	. 0.0		40		0	1		0.0		1.0		1.00	0:43	27.0	127.00	0.00	127.00
•		127.0	0.0	'	-	À	0	4		0.0		4.0		1.00			31.75		31.75
	I	5				0 .	1 .					4.0			11.88	113.0 .			
	III	•				2	0	2		0.0		2.0	2.0	1.00	. 53.71	171.5	63.50	0.00	63.50
SECTION	AGE	FISH/ SQ. N		H/			FIS		FISH/		ISH/	TO	TAL WT.	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	FFLE LB/ ACRE	GM/ SQ. M	LB/ AGRE
AUG. 3/7	2	FISH/ SQ. N	FIS		FISH	1	FIS				CRE	то	TAL WT.	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/
AUG. 3/7		FISH/ SQ. N	FIS A ACE	E	FISH	/ M	FIS				CRE	то	TAL WT.	GM/ SQ. M	LB/	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/
AUG. 3/7	2	FISH/ SQ. N	FIS A ACE	E	FISH SQ.	/ M	FIS	E	50. N		CRE	то	TAL WT.	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ AGRE
AUG. 3/7 I SEP. 13/	2 0 72 I	FISH/ SQ. M	7 FIS	. 8	FISH SQ.	M .	FIS	0.0	0.09		S55.8	то	TAL WT, (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE
AUG. 3/7 I SEP. 13/	2 0 72 I	0.09 0.09	9 355 1 25 3 116	. 8	0.0 0.0	0 .	FIS	E	0.09 0.09		CRE	•	TAL WT.	GM/ SQ. M	14.02 0.70	GM/ SQ. M	0.00	GM/ SQ. M	14.02 0.70
AUG. 3/7 I SEP. 13/	72 I III	0.09	9 355 1 25 3 116	. 8	0.0	0 .	FIS	0.0	0.09 0.01		155.8 29.6	• .	214.6	GM/ SQ. M 1.57	14.02 0.70 7.06	GM/ SQ. M	0.00	GM/ SQ. M	14.02 0.70
AUG. 3/7 I SEP. 13/	72 0 72 I II III	0.09 0.09	9 355 1 25 3 116	. 8	0.0 0.0	0 .	FIS	0.0	0.09 0.09		29.6	• .	10.7 108.0	GM/ SQ. M 1.57 0.08 0.79	14.02 0.70 7.06	GM/ SQ. M	0.00 0.00 0.00	GM/ SQ. M	14.02 0.70
AUG. 3/7 I SEP. 13/ SEP. 11/	72 0 72 I II III	0.09 0.09	9 355 1 25 3 116 1 55	. 8 . 6 . 6	0.0 0.0	0 .	FIS	0.0	0.09 0.09	3	29.6 118.6 59.3	•	10.7 108.0 144.7	GM/ SQ. M 1.57 0.08 0.79	14.02 0.70 7.06	GM/ SQ. M	0.00 0.00 0.00 0.00	GM/ SQ. M	14.02 0.70
AUG. 3/7 I SEP. 13/ I SEP. 11/	72 11 111 73	0.09 0.09	9 355 1 25 3 116 1 55	. 8 . 6 . 6	0.0 0.0	0 .	FIS	0.0	0.09 0.09		29.6 118.6 59.3	• .	10.7 108.0 144.7	GM/ SQ. M 1.57 0.08 0.79	14.02 0.70 7.06	GM/ SQ. M	0.00 0.00 0.00 0.00	GM/ SQ. M	14.02 0.70
AUG. 3/7 I SEP. 13/ I SEP. 11/ I JUNE 20/	72 0 72 1 11 111 73 11	0.09 0.09	9 355 1 25 3 116 1 55	. 8 . 6 . 6	0.0 0.0 0.0	0 000	FIS	0.0	0.09 0.01 0.03 0.01	3	29.6 118.6 59.3	•	10.7 108.0 144.7	GM/ SQ. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46	GM/ SQ. M 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46
AUG. 3/7 I SEP. 13/ I SEP. 11/ I JUNE 20/	2 0 72 I III 73 II	0.09 0.01 0.03 0.01	FIS ACR	. 8 . 6 . 6	0.0 0.0 0.0 0.0	0 0000	FIS	0.0	0.09 0.01 0.03 0.01		29.6 118.6 59.3	•	TAL WT. (GM) 214.6 10.7 108.0 144.7	GM/ 50. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46	GM/ SQ. M 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M	14.02 0.70 7.06 9.46
AUG. 3/7 I SEP. 13/ I SEP. 11/ I JUNE 20/	72 0 72 1 11 111 73 11	0.09 0.09	FIS ACR	. 8 . 6 . 6	0.0 0.0 0.0 0.0	00000	FIS	0.0 0.0 0.0 0.0 0.0	0.09 0.01 0.03 0.01	3	29.6 118.6 59.3	•	10.7 108.0 144.7	GM/ SQ. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46	GM/ SQ. M 0.00 0.00 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46
AUG. 9/7 I SEP. 13/ I SEP. 11/ I JUNE 20/	72 0 72 I II 111 73 II 74 I III	0.09 0.01 0.03 0.01	FIS ACR	. 8 . 6 . 6	0.0 0.0 0.0 0.0	00000	FIS	0.0	0.09 0.01 0.03 0.01	3	29.6 118.6 59.3	•	TAL WT. (GM) 214.6 10.7 108.0 144.7	GM/ 50. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46	GM/ SQ. M 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	GM/ SQ. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46
AUG. 3/7 I SEP. 13/ I SEP. 11/ I JUNE 20/	72 11 111 73 11 74 1 11 11 11	0.09 0.01 0.03 0.01	FIS ACR	. 8 . 6 . 6 . 3	0.0 0.0 0.0 0.0 0.0	00000	FIS	0.0 0.0 0.0 0.0 0.0	0.09 0.01 0.03 0.01	3	29.6 118.6 59.3 319.9 80.0	•	10.7 108.0 144.7 27.4 32.8 97.2	GM/ 5Q. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46 2.42 2.89 8.57	GM/ SQ. M 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	GM/ SQ. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46 2.42 2.89 8.57
AUG. 3/7 I SEP. 13/ I SEP. 11/ I JUNE 20/	72 11 111 73 11 74 11 111 74	0.09 0.01 0.03 0.01	FIS ACR	. 8 . 6 . 6 . 6 3	0.0 0.0 0.0 0.0 0.0 0.0	000000000000000000000000000000000000000	FIS	0.0 0.0 0.0 0.0 0.0	0.09 0.01 0.03 0.01		29.6 118.6 59.3 819.9 80.0	•	10.7 108.0 144.7 27.4 32.8 97.2	GM/ 5Q. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46 2.42 2.89 8.57	GM/ SQ. M 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	GM/ SQ. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46 2.42 2.89 8.57
AUG. 3/7 I SEP. 13/ I SEP. 11/ I JUNE 20/	72 11 111 73 11 74 1 11 11 11	0.09 0.01 0.03 0.01	FIS ACR	. 8 . 6 . 6 . 6 3	0.0 0.0 0.0 0.0 0.0	000000000000000000000000000000000000000	FIS	0.0 0.0 0.0 0.0 0.0	0.09 0.01 0.03 0.01		29.6 118.6 59.3 319.9 80.0	•	10.7 108.0 144.7 27.4 32.8 97.2	GM/ 5Q. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46 2.42 2.89 8.57	GM/ SQ. M 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	GM/ SQ. M 1.57 0.08 0.79 1.06	14.02 0.70 7.06 9.46 2.42 2.89 8.57

SECTIO	N AGE		(5Q.) D RI	M)	LEN (M)		C2	POP	•	VAR	ł	CONF .	LIMITS UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	
JUNE 1														0.00			11.84	0.00	11.84
I	I	98.	7	0.0	39	5	2,		8.		3.6	2.5	14.2	0.60	3.80		11.64	. 0.00	
SEP. 1	7/75	•																	
1 .	0	88.	5	0.0	35	- 4	1		5 .	1	1.0	3.3			0.85	43.8	16.59		16.59
	. 1				٠.	4	0		4		0.0	. 4.0	4.0	1.00	4.27	76.0	22.13 88.50	0.00	22.13
	11					1	0		1 .	(	0.0	1.0	1.0	1.00	12.93	107.0	80.00	0.00	
SEP. 2	2/76				* /:														
1	0	. 97	3	0.0	. 36	5	2		8	. 6	3.6	2.5	14.2.	0.60	0.87	42.1	11.68	0.00	
	1	.*				3	0		3	. (	0.0	3.0	3.0	1.00	6.90	84.0	32.43	0.00	32.43
			WETT	ED.		PI	FFLE			PI	ioL		WETTED	WE	TTED	RI	FFLE	PO	OL
SECTIO	N AGE	FIS	H/	FISH,		ISH/	FI	SH/	F15	H/	FI	SH/ T	(GM)	GM/	LB/	SQ. M	ACRE	GM/ SQ. M	LB/
JUNE 1	7/75	- 'A	· .	,				,						÷					
I		0.	08	341.	7	0.00		0.0	. 0.	08	34	1.7	33.0	0.33	2.98	0.00	0.00	0.33	2.98
SEP.	7/75														*,				
SEL.	0	. 0.	06	243.	9	0.00		0.0	. 0.	06	24	3.9	4.5	0.05	0.46	0.00	0.00	0.05	0.46
I	-		05	182.		0.00		0.0		05		2.9	17.1	.0.19	1.72	0.00			1.72
I	I				4			0.0	•	01	4	5.7	12.9	0.15	1.30	0.00	0.00	0.15	1.30
Ι , .	II		01	45.	7	0.00		0.0	U.	01	7								
SEP. 2		0.	01	45.	7	0.00		0.0	0.										
SEP. 2	I II 2/76	0.	01	346.		0.00		0.0		09		6.6	7.3		0.66	0.00	0.00		0.66

SECT	ION -AGE	AREA WETTED	(SQ.M)	SECT. LEN (M)		C2	POP.	٧	AR N	CONF .	ERCENT LIMITS UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/	FISH (SO RIFFLE	M) POOL
AUG.	30/72	175.0	58.4	70	57	21	90		66.5	73.9	106.6	0.63	1.47	48.7	1.94	0.65	1.25
•	1	175.0	36.4	70	2	0	2		0.0	2.0		1.00	6.90	78.5	87.50	29:20	58.30
AUG.	30/73															*	
I	1	173.3	79.8	71	3	0	3		0.0	3.0	3.0	1.00	6.45	66.3	57.77	26.60	31.1
AUG.	27/74								•								
1	0	158.6	44.0	59	20	2.	22		0,3	21.1	. 23.4	0.90	2.10	57.5	7.14	1.98	5.1
AUG.	25/75	444 -															.2.1
•	ī	144.0	43.9	54	. 32	10.	1	:	0.0	1.0	1.0	1.00	6.31	84.0	144.00	43.90	100.1
AUG.	25/76					,								•			
	0	207.9	105.2	52	34	14	58		68.0	41.3	74.3	0.59	1.40	50.9	3,60	1.82	1.7
LUG.	29/77																3.1
	. 0	222.2	97.1	49	22	10	40		14.1	23.0	57.6	0.55	2.98	63.7	5:01	2.41	3.1
			ETTED			FFLE			POOL		WETTED		TTED		FFLE LB/	PO	OL LB/
SECT	ION AGE		FISH ACRE		ISH/						(GM)				ACRE	GM/ SQ: M	
AUG.	30/72			٠.							•						
	0	0.52			1.55		4.1		. 313		132.7	0.76		2.27			
	1	0.01	46.	3 .	0.03		8.6		61	9.4	13.8	0.08	0.70	0.24	2.11	0,12	1.0
	30/73		•							,	• • • • • • • • • • • • • • • • • • • •	•					
ı	O	0.02	70.	1	0.04	15	2.1	0.03	. 12	9.9	19.4	0.11	1.00	0.24	2.16	0.21	1.8
MIR.	27/74										4						
1	0	0.14	567.	0	0.51	204	3.9	0.19	.78	4.8	46.7	0.29	2.63	1.06	9.47	0.41	3.6
NUG.	25/75																
1	0	0.32			1.06	429		0.46			. 98.7	0.69		2.25	20.05		8.7
	1	0.01	28.	1	0.02	.9	2.2	0.01	4	0.4	6.3	0.04	0.39	0.14	1.28	0.06	0.5
	25/76																
	0	0.28	1125.	1 .	0.55	-222	3.5	0.56	227	7.7	80.7	0.39	3.46	0.77	6.84	0.79	7.0
	29/77									:							
WG.	0	0.18	734.		0.42		1.0	0.32	130		120.3	0.54	4.83	1.24	11.05	0.96	8.5

SECTI	ON AGE	AREA (	SO.M)	SECT. LEN (M) C1	POP C2 N	VAR N	: CON	PERCENT F. LIMITS ER UPPER	,	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	
AUG.	30/78	203.3	105.1	49 22	3 2	5 0	A 23	.6 27.3	0.85	2 57		7 98	4.19	3.85
														0.00
AUG.	16/79	185.5	97.0	55 56	. 12 7	1 8	.2 65	.5 77.0	0.79	2.32	58.7	2.60	1,36	1.24
AUG.		210.5	105.6	48 40	18 7	3 128	.4 50	.1 95.4	0.55	2.04	55.9	2.89	1.45	1.44
SECTIO	ON AGE	FISH/ SQ. M	FISH,	/ FISH/	IFFLE FISH/ ACRE	FISH/	FISH/	WETTED TOTAL WT (GM)	GM/	LB/	GM/	LB/	GM/ SQ. M	LB/
AUG.	30/78	0.42	507.		980.9									
1		. 0.13	507.	0.24	980.9	0.26	1049.8	65.4	0.32	2.87	0.62	5.55	0.67	5.94
AUG.	16/79													
1	0	0.38	1554.5	0.73	2973.6	0.81	3259.2	165.3	0.89	7.95	1.70	15.20	1.67	16.66
AUG.	19/80	0.35	1398.2	0.00	2787.2							4		

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175.0 173.3 158.6	3 79.8 5 44.0	71 59	4 0 8 8 2 1 3 0 6 2 4 4 3 0 3 0 9 3 5 2	4 32 13 3 3 9 29 3 3 3	0.1 0.0 53.9 0.1 0.0 4.5 1.6 0.0 0.0	17.5 18.4.0 4.17.7 47.12.4 13.3.0 3.4.8 13.26.3 31.3.0 3.3.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0	0 1.00 2 0.67 3 0.83 0 1.00 0 1.00	0.28 10.08 25.92 1.27 10.12 43.75 0.85 6.72 20.13 44.11	28.3 92.8 126.7 49.3 99.5 163.3 42.4 85.3 131.7 161.7	43.75 9.69 43.75 5.35 13.24 57.77 17.62 5.51 52.87 52.87	14.60 3.23 14.60 2.46 6.10 26.60 4.89 1.53 14.67	29.15 6.46 29.15 2.89 7.14 31.17 12.73 3.98 38.20 38.20 7.41
173.3 158.6 144.0	3 79.8 5 44.0	71 59 54	8 8 8 1 3 0 6 2 4 4 4 3 3 0 9 3 3 5 5 2	4 32 13 3 9 29 3 3 3	0.1 0.0 53.9 0.1 0.0 4.5 1.6 0.0 0.0	17.5 18.4.0 4.17.7 47.12.4 13.3.0 3.4.8 13.26.3 31.3.0 3.3.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0	6 0.94 0 1.00 1 0.56 8 0.92 0 1.00 2 0.67 3 0.83 0 1.00 7 0.67	10.08 25.92 1.27 10.12 43.75 0.85 6.72 20.13 44.11	92.8 126.7 49.3 99.5 163.3 42.4 85.3 131.7 161.7	9.69 43.75 5.35 13.24 57.77 17.62 5.51 52.87 52.87	3.23 14.60 2.46 6.10 26.60 4.89 1.53 14.67	6.46 29.15 2.89 7.14 31.17 12.73 3.98 38.20 38.20
173.3 158.6	3 79.8 5 44.0	71 59 54	4 0 8 8 2 1 3 0 6 2 4 4 3 0 3 0 9 3 5 2	4 32 13 3 9 29 3 3 3	0.0 53.9 0.1 0.0 4.5 1.6 0.0 0.0	4.0 4 17.7 47. 12.4 13 3.0 3. 4.8 13. 26.3 31. 3.0 3. 3.0 3. 8.3 18. 9.9 18.	0 1.00 1 0.56 8 0.92 0 1.00 2 0.67 3 0.83 0 1.00 7 0.67	1.27 10.12 43.75 0.85 6.72 20.13 44.11	49.3 99.5 163.3 42.4 85.3 131.7 161.7	5.35 13.24 57.77 17.62 5.51 52.87 52.87	2.46 6.10 26.60 4.89 1.53 14.67	29.15 2.89 7.14 31.17 12.73 3.98 38.20 38.20
173.3 158.6	3 79.8 5 44.0	71 59	8 8 2 1 3 0 6 2 4 4 4 3 0 0 3 0 9 3 5 2	9 29 3 3 3	53.9 0.1 0.0 4.5 1.6 0.0 0.0	17.7 47, 12.4 13 3.0 3, 4.8 13, 26.3 31, 3.0 3, 3.0 3,	1 0.56 8 0.92 0 1.00 2 0.67 3 0.83 0 1.00 0 1.00	1.27 10.12 43.75 0.85 6.72 20.13 44.11	49.3 99.5 163.3 42.4 85.3 131.7 161.7	13.24 57.77 17.62 5.51 52.87 52.87	6.10 26.60 4.89 1.53 14.67	2.89 7.14 31.17 12.73 3.98 38.20 38.20
158.6	44.0	59 54	2 1 3 0 6 2 4 4 3 3 0 3 0 9 3 5 2	9 29 3 3 3	0.1 0.0 4.5 1.6 0.0 0.0	12.4 13 3.0 3 4.8 13 26.3 31 3.0 3 3.0 3 8.3 18 9.9 18	8 0.92 0 1.00 2 0.67 3 0.83 0 1.00 0 1.00 7 0.67	10.12 43.75 0.85 6.72 20.13 44.11	99.5 163.3 42.4 85.3 131.7 161.7	13.24 57.77 17.62 5.51 52.87 52.87	6.10 26.60 4.89 1.53 14.67	7.14 31.17 12.73 3.98 38.20 38.20
158.6	44.0	59 54	2 1 3 0 6 2 4 4 3 3 0 3 0 9 3 5 2	9 29 3 3 3	0.1 0.0 4.5 1.6 0.0 0.0	12.4 13 3.0 3 4.8 13 26.3 31 3.0 3 3.0 3 8.3 18 9.9 18	8 0.92 0 1.00 2 0.67 3 0.83 0 1.00 0 1.00 7 0.67	10.12 43.75 0.85 6.72 20.13 44.11	99.5 163.3 42.4 85.3 131.7 161.7	13.24 57.77 17.62 5.51 52.87 52.87	6.10 26.60 4.89 1.53 14.67	7.14 31.17 12.73 3.98 38.20 38.20
144.0	) 43.9	59 54	3 0 6 2 4 4 3 0 3 0 9 3 5 2	9 29 3 3 3	4.5 1.6 0.0 0.0 6.8 4.9 8.6	4.8 13. 26.3 31. 3.0 3. 3.0 3.	2 0.67 3 0.83 0 1.00 0 1.00	0.85 6.72 20.13 44.11	42.4 85.3 131.7 161.7	17.62 5.51 52.87 52.87	4.89 1.53 14.67 14.67	12.73 3.98 38.20 38.20
144.0	) 43.9	54.	4 4 3 0 3 0 9 3 0 3 5 2	29 3 3 14	1.6 0.0 0.0 6.8 4.9 8.6	8.3 18. 9.9 18.	3 0.83 0 1.00 0 1.00 7 0.67	6.72 20.13 44.11	85.3 131.7 161.7	5.51 52.87 52.87	1.53 14.67 14.67	3.98 38.20 38.20
144.0	) 43.9	54.	4 4 3 0 3 0 9 3 0 3 5 2	29 3 3 14	1.6 0.0 0.0 6.8 4.9 8.6	8.3 18. 9.9 18.	3 0.83 0 1.00 0 1.00 7 0.67	6.72 20.13 44.11	85.3 131.7 161.7	5.51 52.87 52.87	1.53 14.67 14.67	3.98 38.20 38.20
144.0		54.	9 3 0 3 5 2	3 3	1.6 0.0 0.0 6.8 4.9 8.6	8.3 18. 9.9 18.	3 0.83 0 1.00 0 1.00 7 0.67	6.72 20.13 44.11	85.3 131.7 161.7	5.51 52.87 52.87	14.67	38.20 38.20
144.0		54	3 0 9 3 0 3 5 2	14	6.8 4.9 8.6	3.0 3. 8.3 18. 9.9 18.	7 0.67	44.11	161.7	52.87	14.67	38.20
144.0		1	9 3 0 3 5 2	14	6.8 4.9 8.6	8.3 18. 9.9 18.	7 0.67					
		1	0 3 5 2	14	8.6	9.9 18.		0.58	39-3	10.67		7.41
		1	0 3 5 2	14	8.6	9.9 18.		0.58	30 3	10.67		7.41
		1.0	5 2	2	8.6			6.22	84.8	10.08	3.25	7.01
						2.5 14.	2 0.60	16.82	119.4	17.28	5.27	12:01
.: ' .				1 :	0.0		0 1:00	57.08	174.0	144.00	43.90	100.10
SQ. I	M ACRI	E SQ.	M ACRE	; SQ. M	ACRE	(GM)	SQ. I	A ACRE	SQ. M	ACRE	SQ. M	ACRE
											/ 2	
0.0									3.12	0.17 27.81		1 0.09
0.0									1.78	15.84	0.89	
41.		*							+* +	4 11/2		. 11.
0.15	9 756	.6 0.4	1 1643	.1 0.35	1402.4	41.0	0.24	2.11	0.51	4.58	0.44	3.91
0.0	8 305	.7 0.1	6 663	.9 0.14	566.6	132.4	0.76	6.82	1.66	14.80	1.42	12.63
0.0	70	.1 0.0	4 152	.1 0.03	129.8	131.2	0.76	6.76	1.64	14.67	1.40	12.52
		*				,1	- 1.			1. 1		* .
0.00					317.8		0.0	0.43	0.17	1.55		
0.18						193.6	1.23	10.89	4.40	39.25		
0.0		.6 0.0						3.40	3.01	12.24		4.70
	_	14.		. 0.00	,103.4	,	0.00			20.00	1.10	
0.0												
0.0									3.19	28.48	1.40	
0.00		.1 0.0							1.30			
0.00											,	
	0.1	0.10 401 0.06 234	0.10 401.5 0.3 0.06 234.2 0.1	0.10 401.5 0.33 1317 0.06 234.2 0.19 768	0.10 401.5 0.33 1317.0 0.14 0.06 234.2 0.19 768.2 0.08	0.10 401.5 0.33 1317.0 0.14 577.6 0.06 234.2 0.19 768.2 0.08 336.5	0.09 379.4 0.31 1244.5 0.13 545.8 7.9 0.10 401.5 0.33 1317.0 0.14 577.6 88.9 0.06 234.2 0.19 768.2 0.08 336.9 140.2	0.09 379.4 0.31 1244.5 0.13 545.8 7.9 0.05 0.10 401.5 0.33 1317.0 0.14 577.6 88.9 0.62 0.06 234.2 0.19 768.2 0.08 336.9 140.2 0.97	0.09     379.4     0.31     1244.5     0.13     545.8     7.9     0.05     0.49       0.10     401.5     0.33     1317.0     0.14     577.6     88.9     0.62     5.51       0.06     234.2     0.19     768.2     0.08     336.9     140.2     0.97     8.68	0.09     379.4     0.31     1244.5     0.13     545.8     7.9     0.05     0.49     0.18       0.10     401.5     0.33     1317.0     0.14     577.6     88.9     0.62     5.51     2.02       0.06     234.2     0.19     768.2     0.08     336.9     140.2     0.97     8.68     3.19	0.09 379.4 0.31 1244.5 0.13 545.8 7.9 0.05 0.49 0.18 1.60 0.10 401.5 0.33 1317.0 0.14 577.6 88.9 0.62 5.51 2.02 18.06 0.06 234.2 0.19 768.2 0.08 336.9 140.2 0.97 8.68 3.19 28.48	0.09 379.4 0.31 1244.5 0.13 545.8 7.9 0.05 0.49 0.18 1.60 0.06 0.10 401.5 0.33 1317.0 0.14 577.6 88.9 0.62 5.51 2.02 18.06 0.85 0.06 234.2 0.19 768.2 0.08 336.9 140.2 0.97 8.68 3.19 28.48 1.40

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								_										
				SECT.							95 P	ERCENT		MEAN	MEAN			
		AREA (S		LEN		*4	POP		VAR.		ONF.	LIMITS		WEIGHT	LENGTH	- AREA/	FISH (S	2.M).
SECTION	AGE	WETTED	RIFFLE	(M)	C1	C2 .	N		N	L	OWER	UPPER	P	(GM)	(MM)	WETTED	RIFFLE	POOL
AUG. 25	/76																	
1	I	207.9	105.2	52	2	1		4	.12.	0	-2.9	.10.9	0.50	4.36	. 77.0	51.97	26.30	25.67
	IL				2	. 2		1 5						9.31	101.0			
	III				2	0		2	0.	0	2.0	2.0	1.00	38.40	157,5	103.95	52.60	51.3
UG. 29	177																	
. 20	0	222.2	97.1	49	3			5	2	3	1.5	7 8	0.67	0.71	41.7	49.38	21.58	27.8
	ī	****	37.1	40		À	1		48.		2.1	29.8		5.36		13.89	6.07	7.8
	II				4	ō		4	0:		4.0		1.00	15.32	116.0	55.55	24.27	31.2
	III			* * * * * * * * * * * * * * * * * * * *	1	. 0		1	-		1.0		1.00	42.99	161.0	222.20		125:1
. **												,,,,,	1.00	2.00	101.0	222.40	07.10	120.11
UG. 30	/78			-														
	0	203.3	105.1	49	4	1		5	. 1.	0	3.3	7.3	0.75	0.79	44.2	38, 12	19.71	18.4
	1	,			9	2	1	2	1.	5 .	9.1			6.61	88.8	17.57	9.08	8.4
	II				-2	1		4 : .	12.	0 .	-2.9	10.9	0.50	19.88	128.3	50.83	26.27	24.5
ECTION	AGE	FISH/	FISH		ISH/	FIS			H/	FISH	1 . TI	DTAL WT	. GM/.	10/				
		SQ. M	ACRE	. 5	Q. M	ACR	E	SQ.				(GM)	SQ. M		SQ. M	ACRE.	GM/ \$Q. M	
110 25	/76		ACRE		Q. M	ACR	Ε	SQ.					SQ. M					
UG. 25,									M	ACRE		(GM)	SQ. M	ACRE	SQ. M	ACRE	\$Q. M	ACRI
	I				0.04		3.9	0.0	M	ACRE			SQ. M	ACRE		1.48	\$Q. M	ACRI
		0.02	77:1	9	0.04	15	3.9	0:0	M 04	157.	6	(GM)	SQ. M	0.75	SQ. M	1.48	\$Q. M	1.5
	III		77:1	9		15			M 04	ACRE	6	(GM)	SQ. M	0.75	SQ. M	1.48	\$Q. M	1.5
UG. 29/	I II III /77	0.02	77 : 1 38 . 1	9	0.04	15	3.9	0:0	M 04	157.	6	(GM)	SQ. M	0.75	SQ. M	1.48	\$Q. M	1.5
UG. 29/	1 11 111 /77 0	0.02	77:1 38:1	9	0.04	15	3.9 6.9	0.0	04 02	157. 78.	6 B	(GM) 17.4 76.8	0.08 0.37	0.75 3.29	0.17 0.79	1.48 6.51	0.17 0.75	1.5 6.6
UG. 29/	1 11 111 /77 0 1	0.02 0.01 0.02 0.07	38.1 38.1 291.1	9	0.04 0.02 0.05 0.16	15 7 18 66	3.9 6.9 7.6 6.9	0.0	04 02 04 13	157. 78.	6 8 6	(GM) 17.4 76.8 3.2 85.7	0.08 0.37	O.75 3.29 O.13 3.44	0.17 0.73 0.03 0.88	1.48 6.51 0.29 7.87	0.17 0.75 0.03 0.69	1.5: 6.6:
UG. 29/	1 11 111 /77 0 1 11	0.02 0.01 0.02 0.07 0.02	77;1 38;1 82;1 291;	9	0.04 0.02 0.05 0.16 0.04	15 7 18 66 16	3.9 6.9 7.6 6.9 6.7	0.0	04 02 04 13	157. 78. 145. 517.	6 8 6 6 4	17.4 76.8 3.2 85.7 61.3	0.08 0.37 0.01 0.39 0.28	O.75 3.29 O.13 3.44 2.46	0.17 0.73 0.03 0.88 0.63	1.48 6.51 0.29 7.87 5.63	0.17 0.75 0.03 0.69 0.49	1.5: 6.6: 0.2: 6.1
UG. 29/	1 11 111 /77 0 1	0.02 0.01 0.02 0.07	38.1 38.1 291.1	9	0.04 0.02 0.05 0.16	15 7 18 66 16	3.9 6.9 7.6 6.9	0.0	04 02 04 13	157. 78.	6 8 6 6 4	(GM) 17.4 76.8 3.2 85.7	0.08 0.37	O.75 3.29 O.13 3.44	0.17 0.73 0.03 0.88	1.48 6.51 0.29 7.87 5.63	0.17 0.75 0.03 0.69 0.49	1.5: 6.6: 0.2: 6.1
UG. 29/	1 11 111 /77 0 1 11 111	0.02 0.01 0.02 0.07 0.02	77;1 38;1 82;1 291;	9	0.04 0.02 0.05 0.16 0.04	15 7 18 66 16	3.9 6.9 7.6 6.9 6.7	0.0	04 02 04 13	157. 78. 145. 517.	6 8 6 6 4	17.4 76.8 3.2 85.7 61.3	0.08 0.37 0.01 0.39 0.28	O.75 3.29 O.13 3.44 2.46	0.17 0.73 0.03 0.88 0.63	1.48 6.51 0.29 7.87 5.63	0.17 0.75 0.03 0.69 0.49	1.5: 6.6: 0.2: 6.1
UG. 29/	I II III /77 0 I II III	0.02 0.01 0.02 0.07 0.02 0.00	77.1 38.1 82.0 291.7 72.1	9 9 0 4 9 2	0.04 0.02 0.05 0.16 0.04 0.01	15 7 18 66 16	3.9 6.9 7.6 6.9 6.7 1.7	0.0	04 02 04 13 03 01	157. 78. 145. 517. 129. 32.	6 8 6 6 4 4	17.4 76.8 3.2 85.7 61.3 43.0	0.08 0.37 0.01 0.39 0.28 0.19	O.75 3.29 O.13 3.44 2.46 1.73	0.17 0.73 0.03 0.88 0.63 0.44	1.48 6.51 0.29 7.87 5.63 3.95	0.17 0.75 0.03 0.69 0.49 0.34	1.55 6.6 0.22 6.1 4.3
AUG. 25/	I II III /77 O I II III 78	0.02 0.01 0.02 0.07 0.02 0.00	77:1 38:1 82:( 291: 72:1 18::	9 0 4 9 2 2	0.04 0.02 0.05 0.16 0.04 0.01	15 7 18 66 16 4	3.9 6.9 7.6 6.9 6.7 1.7	0.0	04 02 04 13 03 01	157. 78. 145. 517. 129. 32.	6 B B 6 6 4 4 4 B B	17.4 76.8 3.2 85.7 61.3 43.0	0.08 0.37 0.01 0.39 0.28 0.19	O.75 3.29 O.13 3.44 2.46 1.73 O.19	0.17 0.73 0.03 0.88 0.63 0.44	1.48 6.51 0.29 7.67 5.63 3.95	0.17 0.75 0.03 0.69 0.49 0.34	1.52 6.67 0.23 6.11 4.37 3.07
UG. 29/	I II III /77 0 I II III	0.02 0.01 0.02 0.07 0.02 0.00	77.1 38.1 82.0 291.7 72.1	9 0 4 9 9 2 2 2 3	0.04 0.02 0.05 0.16 0.04 0.01	15 7 18 66 16 4	3.9 6.9 7.6 6.9 6.7 1.7	0.0 0.0 0.0	04 02 04 13 03 01	157. 78. 145. 517. 129. 32.	6 B B 6 6 4 4 4 4 8 9	17.4 76.8 3.2 85.7 61.3 43.0	0.08 0.37 0.01 0.39 0.28 0.19	O.75 3.29 O.13 3.44 2.46 1.73	0.17 0.73 0.03 0.88 0.63 0.44	1.48 6.51 0.29 7.87 5.63 3.95	0.17 0.75 0.03 0.69 0.49 0.34	1.53 6.67 0.23 6.11 4.37 3.07

SECTIO	N AGE	AREA WETTED	(SQ.M) RIFFLE	SECT.		C2	POP.	. v	AR.	CONF .	ERCENT LIMITS UPPER		MEAN WEIGHT (GM)			FISH (SQ RIFFLE	.M) POOL
AUG. 30	0/72 ALL	175.0	58.4	70	55	27	108	2	04.2	73.7	142.3	0.51	3.20	66.4	1.62	0.54	1.08
AUG. 30		173.3	79.8	. 71	26	14	56	. 2	55.6.	24.4	88.3	0.46	4.40	75.3	3.08	1.42	1.66
AUG. 2		158.6	44.0	59	32	17	68	. 2	86.4	34.4	102.1	0.47	6.28	75.7	2.32	0.64	1.68
AUG21	5/75 ALL	144.0	43.9	54	40	22	. 89	. 41	57.4	46.1	131.7	0.45	6.05	77.6	1.62	0.49	1.13
AUG. 2		207.9	105.2	52	47	20	82	1	11.4	60.7	102.9	0.57	5.57	75.9	2.54	1.29	1.26
1				2 2										٠,	-	. :	
ECTIO	N AGE	FISH,	FISH ACRE	/	ISH/	FFLE FIS ACE	SH/ RE	FISH/	FI AC	SH/ T	WETTED TOTAL WT (GM)	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	LB/ ACRE
AUG. 30	N AGE	50. 1	4 ACRE		O. M	ACF	SH/ RE	SQ. M	AC	RE	(GM)	50. N	ACRE	SO. M	ACRE	PO GM/ SQ. M	ACRE
AUG. 30	O/72	50. 1	2 2498	4	1.85	748	RE 06.7	0.93	374	9.7	(GM)	1.98	17.62	50. M	52.80	50. M	26.45
AUG. 30	0/72 ALL 0/73 ALL	0.62	2 2498	4	1.85	748 288	RE 06.7	0.93 0.60	374 243	9.7	345.7 247.9	1.98	17.62 12.76	50. M 5.92 3.11	52.80 27.71	2.96	26.45 23.65
AUG. 30 I AUG. 30 I AUG. 21	0/72 ALL 0/73 ALL 7/74 ALL	0.62	2 2498 3 1315 3 1742	4 5	1.85 0.71	748 288 627	36.7 36.9	0.93 0.60	374 243	9.7 8.3 0.8	345.7 247.9 428.8	1.98 1.43 2.70	17.62 12.76 24.12	5.92 3.11 9.75	52.80 27.71 86.93	2.96 2.65	26.45 23.65 33.38

SECTIO	N .	AGE		(SQ.M) RIFFLE	SECT. LEN (M)		C2	POP.	VAR.	95 F CONF . LOWER			MEAN WEIGHT (GM)	MEAN LENGTH (MM)		ISH (SQ	
AUG. 2		7 ALL	222.2	97.1	49	40	20	80	240.	0 49.0	111.0	0.50	3.95	69.9	2.7B	1.21	1.56
•					40	40		-		40.0		0.00	0.00	00.0			
AUG. 3		ALL	203.3	105.1	49	72	37	148	515.	5 102.7	7 193.5	0.49	4.03	68.4	1.37	0.71	0.66
AUG. 1		9 ALL	185.5	97.0	55	88	35	146	147.	9 121.8	3 170.4	0.60	3.50	65.9	1.27	0.66	0.61
AUG. 1	9/8		210.5	105.6	48	19	20						3.27	64.5			٠
SECTIO	IN .	AGE		WETTED / FISI M ACR	H/ F	RI ISH/ GQ. M	FFLE FI: ACI	SH/	POOI FISH/ SQ. M		WETTED TOTAL WT (GM)	GM/	TTED LB/ ACRE	RI GM/ SQ. M	. LB/	GM/ SQ. M	LB/
AUG. 2	9/7																* :
I	. 1	ALL	0.3	6 1457	. 1	0.82	33	34.3	0.64	2588.0	316.1	1.42	12.69	3.26	29.04	2.53	22.54
AUG. 3	0/7	3	1	1 4		*							* , *,4	*			
I		ALL	0.7	3 2948	. 4	1,41	570	03.3	1.51	8104.1	597.0	2.94	26.19	5.68	50.67	6.08	54.23
AUG. 1	6/79	9		** *										***			
I		ALL	0.7	9: 3187	. 7	1.51	608	96.1	1.65	6681.6	511.0	2.75	- 24.57	5.27	46.99	5.77	51,50
AUG. 1		ALL									,-						

## Appendix table IX (cont'd) Cottus asper

SECTION	AGE		(SQ.M) RIFFLE				POP.		AR.	CONF.	ERCENT LIMITS UPPER					FISH (SQ	
AUG. 19	780 ALL	210.5	105.6	48	7	0	. ,		0.0	7.0	7.0	1.00	4.65	73,4	30.07	15.09	14.99
SECTION	AGE	FISH	WETTED / FISH, M ACRE	/ F	ISH/	FIS	H/	FISH/	FIS	H/ TO	WETTED DTAL WT (GM)	GM/	LB/	GM/	LB/	GM/ SQ. M	LB/
AUG. 19	/BO ALL	0.0	3 134.6	6	0.07	26	8.3	0.07	270	. 1	32.6	Ó. 15	1.38	0.31	2.75	0.31	2.77

SECTIO	N AGE	AREA (SQ WETTED R	.M) L IFFLE (	CT. EN M) M	C 1		POP.	VAR.	CONF: I	UPPER	WEIGHT	MEAN LENGTH (MM)	AREA/F	ISH (SQ RIFFLE	POOL
SEP. 1		1400.0	0.0 1	58 148	84	18	667	17250.4	403.9	929.3	2.22	53.4	2.10		
	N AGE	WET FISH/ SQ. M	TED FISH/ ACRE	FISH/	IFFLE FISH, ACRE	1	FISH/	FISH/	WETTED TOTAL WT. (GM)	· GM/	TED LB/ ACRE	GM/	FLE LB/ ACRE	. GM/	LB/
SEP. 1		0.48	1926.9						1479.8	1.06	9.43				
APPEND		FREDERICK		соно								, , ,			
SECTIO	N AGE	AREA (SQ WETTED R	SE .M) L IFFLE (	CT. EN M) C1	C2	OP.	V	AR. CON	PERCENT F. LIMITS ER UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		ISH (SQ RIFFLE	
AUG. 2	2/72 0 I	529.3	132.5	64 151 8		292	73	5.3 238 2.0 7	.1 346.6 .9 13.5	0.52 0.75	2.36	53.6	1.81	0.45 12.42	1.36
AUG. 3	1/73 0 1	380.7	12.5	51 23 8	3 1	26. 9		0.8 24 0.2 8	.7 28.2 .2 10.1	0.87	1.98	55.6 74.6	14.39 41.64	0.47	13.92
	N AGE	WET FISH/ SQ. M	FISH/	FISH/ SQ. M	FISH	/	FISH/	FISH/	WETTED TOTAL WT (GM)	GM/	TED LB/ ACRE	RIF GM/ SQ. M		GM/ SQ. M	LB/
AUG. 2	2/72	4. :	11			1.		7° . ':		:*			·		3 24
I		0.55	2235.1		8928 325		0.74	2981.4	689.9 95.4	1.30	11.63	5.21 0.72	46.44 6.42	1.74	
AUG. 3	1/73 0 I	0.07	281.2	2.12 0.73			0.07	290.7 100.5	52.4 43.0	0.14	1.23	4.19	37.36	0.14	

SECTION AGE	AREA (S	Q.M) RIFFLE	SECT.	C1	C2		,	VAR.		LIMITS UPPER		MEAN WEIGHT (GM)		AREA/F WETTED		
AUG. 28/74 I 0	503.5	0.0	64	60.	26	106	.;	156.6	80.6	130.9	0.57	2.29	56.9	4.76	0.00	4.76
SEP. 19/75 I 0 I	385.3	25.4	48	143	18	164 3		4.4	159.4	167.8	0.87	3.20 6.04	65.9 84.3	2.36 128.60	0.16 8.47	2.20 120.13
AUG. 24/76 I O I	442.1	25 . 1	48		32			35.8 12.0	153.4	177.3	0.74	1.69	52.8 79.0	2.67 110.53	0.15 6.28	
AUG. 30/77 O AUG. 14/79	434.5	73.9	48	95	30	139		56.9	123.6	153.9	0.68	3.07	64.6	3, 13	0.53	2.60
0	445.2 WE	TTED.		RII	FFLE			POOL	•	WETTED	WE	TTED'		FFLE	PC	OOL
SECTION AGE	FISH/ SQ. M				FISH			H A		OTAL WT.		ACRE	GM/ SQ. M	ACRE	GM/ SQ. M	
NUG. 28/74	0.21	851.	1 (	0.00		0.0	0.2	1 8	51.1	242.4	0.48	4.29	0.00	0.00	0.48	4.2
SEP. 19/75 O I	0.42	1718.	3 (	5.44	26065 478	1.0	0.4	5 18 1	39.6 33.7	523.7 18.1	1.36	12.12	20.62	183.91	1.46	12,90
NUG. 24/76	0.37	1513.			26664 644				05.Q 38.8	280.2 24.7				99.87 8.77		
UG. 30/77	0.32	1293.	2 .	1.88	7603	. 7	0.36	15	58.3	425.6	0.98	8.74	5.76	51.37	1.18	10.5
UG. 14/79														0 40		

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SECTION	AGE:	AREA (S	Q:M)			POP. 2 N	VAR.		LIMITS UPPER		MEAN WEIGHT (GM)			FISH (SQ.M) RIFFLE POOL
AUG. 22/	/72					.* . :				,				*
I	0	529.3	132.5	64	5	4 25	3600.0	-95.0	145.0	0.20	0.99	42.3	21.17	5.30 15.87
	1	•			4	1 5	1.0		7.3			109.0		
		WE	TTED	, , .	RIFF	LE	POOL		ETTED	WE	TTED	RI	FLE	POOL
,		FISH/	FISH/	FIS	H/::.	FISH/	FISH/ F	ISH/ TO	TAL WT	GM/	LB/	GM/	LB/	GM/ LB/
	AGE	SO M	ACRE	SO	M :	ACRE	SQ. M A	CRE	(GM)	SQ. M	ACRE	50. M	ACRE	SQ. M . ACRE
SECTION	Mar	3Q. M	HONE								4 * F 11 +	34	1	
AUG. 22/	•	3 <b>4.</b> m	HONE											
	•	0.05	191.1	a i	••••	763.6			24.8	0.05		-1		

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SECTION	N AGE	AREA (		SECT. LEN (M)		C2	POP.		VAR.	CONF	PERCENT LIMITS R UPPER	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/ WETTED	FISH (SE	).M) POOL
AUG. 31	1/73										:	,			٠.		
1	0	380.7	12.5	51	1	0	1		0.0	2.	0 2.0	1.00		49.5	190.35	6.25 12.50	184.10
AUG. 28	R/74											•					
	0	503.5	0.0	. 64	1	1								47.0			
	I				1	0	1		0.0	1.	0 1.0	1.00	15.71	117.0	503.50	0.00	503.50
SEP. 18	0/75															٠.	
I .		385.3	25.4	48	16	1 '	17		0.1	16.	5 17.7	0.94	. 1.73	54.7	22.58	1.49	21.09
												1.	*				
AUG. 24		442.1	25.1	48	4				1.0		3. 7.3	A 75	4 40	52.8	00 00	4 71	78.19
•	•	442.1	49.1	40	4	1.			1.0		3 7.3	0.75	1.42	. 94.0	02.09	4.71	70.10
AUG. 30																	
I	0	434.5	73.9	48	11	5	20		37.3	. 7.	9 32.4	0.55				3.66	
	11			•	,	0	. 1		0.0	. 1.	0 1.0	. 1,00	8.39	88.0	434.50	73.90	360.60
AUG. 14	1/79																
1	. 0	445.2	27.9	=-	4.00							A	4 94	FO 0	40 00	1.00	45 03
		1 1 W	ETTED		RI	FFLE			POOL	,	WETTED	VE	TTED	RI	FFLE	P	DOL
SECTION			ETTED FISH	/ F	111	FFLE	,		POOL	ISH/			TTED LB/		1	GM/	
	N AGE	FISH/	ETTED FISH	/ F	RI ISH/	FFLE	,	FISH	POOL	ISH/	WETTED TOTAL WT	WE GM/	TTED LB/	RII GM/	FFLE LB/	GM/	DOL LB/
SECTION AUG. 31	N AGE	FISH/ SQ. M	FISH FISH ACRE	/ F S	RI ISH/ IQ. M	FFLE FISH ACRE	.5	FISH SQ. (	POOL	ISH/ ACRE	WETTED TOTAL WT	WE GM/	TTED LB/	RII GM/	FFLE LB/	GM/	DOL LB/
SECTION AUG. 31	N AGE	FISH/ SQ. M	FISH ACRE	/ F S	RI ISH/ GQ. M	FFLE FISH ACRE	.5	FISH SQ.	POOL	ISH/	WETTED TOTAL WT	WE GM/	TTED LB/	RII GM/	FFLE LB/	GM/	DOL LB/
SECTION AUG. 31	N AGE	FISH/ SQ. M	FISH FISH ACRE	/ F S	RI ISH/ IQ. M	FFLE FISH ACRE	.5	FISH SQ. (	POOL	ISH/ ACRE	WETTED TOTAL WT	WE GM/	TTED LB/	RII GM/	FFLE LB/	GM/	DOL LB/
SECTION AUG. 31	N AGE	FISH/ SQ. M	FISH ACRE	/ F	RI ISH/ iQ. M 0.16 0.08	FFLE FISH ACRE 647 323	.5	0.0 0.0	POOL /	22.0 11.0	WETTED TOTAL WT (GM)	WE GM/ SQ. M	TTED LB/ ACRE	RI GM/ SQ. M	FFLE LB/ ACRE	gm/ SQ. M	DOL LB/ ACRE
SECTION	N AGE	FISH/ SQ. M	FISH ACRE	/ F	RI ISH/ IQ. M	FFLE FISH ACRE	.5	FISH SQ. (	POOL /	ISH/ ACRE	WETTED TOTAL WT	WE GM/	TTED LB/ ACRE	RII GM/	FFLE LB/ ACRE	gm/ sq. M	DOL LB/ ACRE
SECTION AUG. 31 AUG. 28	N AGE	FISH/ SQ. M	FISH ACRE	/ F	RI ISH/ iQ. M 0.16 0.08	FFLE FISH ACRE 647 323	.5	0.0 0.0	POOL	22.0 11.0	WETTED TOTAL WT (GM)	WE GM/ 50. M	TTED LB/ ACRE	RI GM/ SQ. M	FFLE LB/ ACRE	gm/ SQ. M	DOL LB/ ACRE
AUG. 28	N AGE	FISH/ SQ. M	FISH ACRE	/ F	RI ISH/ iQ. M 0.16 0.08	FFLE FISH ACRE 647 323	.5	0.0 0.0	POOL	22.0 11.0	WETTED TOTAL WT (GM)	WE GM/ 50. M	TTED LB/ ACRE	RI GM/ SQ. M	FFLE LB/ ACRE	GM/ SQ. M	OOL LB/ ACRE
AUG. 28	N AGE	0.01 0.00	FISH ACRE	/ F	RI ISH/ IQ. M 0.16 0.08	FFLE FISH ACRE 647 323	.5	0.0 0.0	POOL	22.0 11.0	WETTED TOTAL WT (GM)	WE GM/ 50. M	TTED LB/ ACRE	RII GM/ SQ. M	FFLE LB/ ACRE	GM/ SQ. M	OOL LB/ ACRE
AUG. 28	N AGE	0.01 0.00 0.00	FISH ACRE  21. 10.1	/ F	RI ISH/ IQ. M 0.16 0.08	FFLE FISH ACRE 647 323 0	.5 .8 .0	0.00 0.00	POOL	22.0 11,0 8.0	WETTED TOTAL WT (GM)	WE GM/ SQ. M	D.28	RII GM/ SQ. M	FFLE LB/ ACRE 0.00	9 PP GM/ SQ. M	0.28 0.73
AUG. 28 ISEP. 19 I AUG. 24 I	N AGE 1/73 0 1 3/74 0 1 2/75 0	0.01 0.00 0.00	FISH ACRE  21. 10.1	/ F	RI ISH/ IQ. M 0.16 0.08	FFLE FISH ACRE 647 323	.5 .8 .0	0.0 0.0	POOL	22.0 11.0	WETTED TOTAL WT (GM)	WE GM/ 50. M	UB/ ACRE 0.28	RII GM/ SQ. M	FFLE LB/ ACRE 0.00	9 PP GM/ SQ. M	0.28 0.73
AUG. 28 SEP. 18 I AUG. 24 I AUG. 24 I AUG. 30	N AGE 1/73 0 1 8/74 0 1 1 8/75 0 6/76 0	0.01 0.00 0.00	FISH ACRE  21.0 10.1 8.0 179.0	/ F S S S S S S S S S S S S S S S S S S	RII ISH/ IQ. M 0.16 0.08 0.00	FFLE FISH ACRE 647 323 0 2719	.5 .80	0.0 0.0 0.0 0.0	POOL	22.0 11.0 8.0	WETTED TOTAL WT (GM) 15.7 29.5	WE GM/ 50. M	D.28 O.68 O.15	RII GM/ SQ. M	O.00 10.36	9 0.03 0.08	OOL LB/ AGRE O.28 O.73
AUG. 28 I SEP. 19 I AUG. 24 I AUG. 26	N AGE 1/73 0 1 8/74 0 1 9/75 0 4/76 0	0.01 0.00 0.00 0.04	FISH ACRE  21.10.11  1.179.11  48.11  187.11	/ FS	RII ISH/ IQ. M 0.16 0.08 0.00 0.67 0.21	FFLE FISH ACRE 647 323 0 2719 859	.5 .8 .0 .2 .9 .4	0.00 0.00 0.00	POOL	22.0 11,0 8.0 191.9	WETTED TOTAL WT (GM) 15.7 29.5 7.6	WE GM/ 50. M	UB/ ACRE 0.28 0.68 0.15	RII GM/ SQ. M	O.000 10.36 2.68	O.03 O.08 O.02 O.08	0.28 0.73 0.16
AUG. 28 I SEP. 19 AUG. 24 I AUG. 24 I	N AGE 1/73 0 1 8/74 0 1 1 8/75 0 6/76 0	0.01 0.00 0.00	FISH ACRE  21.10.11  1.179.11  48.11  187.11	/ FS	RII ISH/ IQ. M 0.16 0.08 0.00	FFLE FISH ACRE 647 323 0 2719	.5 .8 .0 .2 .9 .4	0.0 0.0 0.0	POOL	22.0 11.0 8.0	WETTED TOTAL WT (GM) 15.7 29.5	WE GM/ 50. M	UB/ ACRE 0.28 0.68 0.15	RII GM/ SQ. M	O.000 10.36 2.68	O.03 O.08 O.02 O.08	OOL LB/ AGRE O.28 O.73
AUG. 28 I SEP. 19 AUG. 24 I AUG. 24 I	N AGE 1/73 0 1 8/74 0 1 9/75 0 4/76 0 1/77	0.01 0.00 0.00 0.04	FISH ACRE  21. 10.1 179. 48.	/ F S	RII ISH/ IQ. M 0.16 0.08 0.00 0.67 0.21	FFLE FISH ACRE 647 323 0 2719 859	.5 .8 .0 .2 .9 .4 .8	0.00 0.00 0.00	POOL	22.0 11,0 8.0 191.9	WETTED TOTAL WT (GM) 15.7 29.5 7.6	WE GM/ 50. M	0.28 0.68 0.15	0.00 1.16 0.30	O.000 10.36 2.68	0.03 0.08 0.02	0.28 0.73 0.16

SECTI	ON	AGE	AREA (	SQ.M) RIFFLE	SECT. LEN (M)		C2 N	. VAR	CONF	PERCENT LIMITS R UPPER		MEAN WEIGHT (GM)			FISH (SQ RIFFLE	
AUG.	22/	72 -						.,								
1 .		ALL	529.3	132.5	529	0	0 (No	estimate	but abu	ndant)		0.34	34.2			
AUG.			380.7	12.5	51	23	12	182	.1. 21.	1 75.1	0.48	0.30	33.8	7.92	0.26	7.6
AUG.			503.5	0.0	64	94	57 2:	9 2313	.0 142.	6 335.0	0.39	0.71	39.6	2.11	0.00	2.1
SEP.	19/	75	,													
I			385.3	25.4	48	90	35 1	7 135	.5 124.	0. 170.6	0.61	0.69	40.1	2.62	0.17	2.4
AUG.	24/	76 ALL	442.1	25.1	48	19	16 1:	0 39932	.8 -279.	3 520.0	0.16	1.15	46.9	3.67	0.21	3.4
AUG.	14/	79 ALL	445.2	27.9	50	866	193: 11	4 144	2 1090.	3 1138.4	0.78	0.28	30.9	0.40	0.03	0.3
				ETTEN		DI			ni	WETTER	WE	TTED	: D11	FELF	. 'PO	01
SECTI	ON	AGE	FISH/		/ F	TSH/	FFLE FISH/ ACRE	FISH/ SQ. M	FISH/	WETTED TOTAL WT (GM)	GM/	TTED LB/ ACRE	· GM/	- LB/	GM/ SQ. M	LB/
ug.	22/7		FISH/ SQ. M	FISH	1/ F	TSH/	· FISH/	FISH/	FISH/	TOTAL WT	GM/	IR/	· GM/	- LB/	· GM/	LB/
NUG.	22/7	72 ALL 73	FISH/ SQ. M	ACRE	5	TSH/	FISH/ ACRE	FISH/	FISH/ ACRE	TOTAL WT	GM/ SQ. H	LB/ ACRE	SQ. M	LB/ ACRE	· GM/	LB/ ACR
lug.	22/1	72 ALL 73 ALL	FISH/ SQ. M	FISH ACRE	2	FISH/	FISH/ ACRE	FISH/ SQ. M	FISH/ ACRE	TOTAL WT (GM)	GM/ SQ. H	LB/ ACRE	SQ. M	LB/ ACRE	GM/ SQ. M	ACR
LUG.	22/7	72 ALL 73 ALL	0.13	511.	2	3.85	15569.9	FISH/ SQ. M	FISH/ ACRE	TOTAL WT (GM)	GM/ SQ. M	0.34 2.99	GM/ SQ. M	LB/ ACRE	GM/ SQ. M	0.3 2.9
UG.	22/1 31/1 28/1 19/1	72 ALL 73 ALL 74 ALL 75 ALL	0.13	511. 1919.	2 5 9	3.85	15569.9 0.0 23465.1	0.13 0.47	FISH/ ACRE 528.6 1919.5	TOTAL WT (GM)	GM/ SQ. M 0.04 0.34	0.34 2.99	1.15 0.00 3.98	10.30 0.00 35.54	GM/ SQ. M	0.3 2.9

SECTION	AGE		(SQ.M) RIFFLE			POP.		CON	PERCENT F. LIMITS ER UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SE	
AUG. 30/	/77 ALL	434.5	73.9	48 1	09 55	220	693.2	2 167	.4 272.7	0.50	1.59	45.7	1.97	0.34	1.64
SECTION		FISH,		/ FIS	RIFFLE // F	ISH/	POOL FISH/ SQ. M	FISH/	WETTED TOTAL WT (GM)	GM/	LB/	RI GM/ SQ. M	LB/	GM/ SQ. M	LB/
AUG. 30/	/77 ALL	0.5	1 2049.	3 2.	98 12	048.9	0.61	2469.3	350.7	0.81	7.20	4.75	42.3	0.97	8.67

SECTIO	N AGE		(SQ.M) RIFFLE			c	R	POP.	VAR.	95 PE CONF. LOWER	LIMITS	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA, WETTED	/FISH RIFF		
SEP. 1	4/71 ALL	1400.0	0.0	158	120	137	9	1670	235108.0	700.0	2639.6	4.50	73.1	0.84		**	àt s
	N AGE			V F	RII ISH/	FIS	H/	FISH/ SO. M	OOL FISH/ ACRE	TOTAL W		LB/	GM/ SQ. M		. GI		LB/ ACRE
SEP. 1	4/71 ALL	1.11		9						7514.1	5.37	47.88					

UG. 22/72  ALL 529.3 132.5 64 78 28 122 80.9 103.7 139.7 0.64 5.20 76.3 4.35 1.09 3.26  UG. 31/73  ALL 380.7 12.5 51 35 13 56 42.4 42.7 68.7 0.63 3.60 71.3 6.84 0.22 6.61  UG. 28/74  ALL 503.5 0.0 64 120 61 244 800.4 187.5 300.6 0.49 3.57 61.6 2.06 0.00 2.06  EP. 19/75  ALL 385.3 25.4 48 106 20 131 10.4 124.2 137.1 0.81 4.03 67.5 2.95 0.19 2.75  UG. 24/76  ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 6.01 0.34 5.67  UG. 14/79  ALL 445.2 27.9 50 32 11 49 27.4 38.3 58.2 0.66 5.86 77.3 9.13 0.57 8.56  WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL  ECTION AGE SQ. M ACRE SQ. M	SECT	ION	AGE	AREA (	SQ.M) RIFFLE	SECT. LEN (M)	C1	C2	POP.		VAR.		95 CONF LOWE	PERCENT : LIMITS R UPPER	Р	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	M) POOL
ALL 529.3 132.5 64 78 28 122 80.9 103.7 139.7 0.64 5.20 76.9 4.35 1.09 3.26  UG. 31/73 ALL 380.7 12.5 51 35 13 56 42.4 42.7 68.7 0.63 3.60 71.3 6.84 0.22 6.61  UG. 28/74 ALL 503.5 0.0 64 120 61 244 800.4 187.5 300.6 0.49 3.67 61.6 2.06 0.00 2.06  EP. 19/75 ALL 385.3 25.4 48 106 20 131 10.4 124.2 137.1 0.81 4.03 67.5 2.95 0.19 2.75  UG. 24/76 ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 6.01 0.34 5.67  UG. 14/79 ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.13 0.57 8.56  ECTION AGE SO. M ACRE SO. M ACRE SO. M ACRE (GM) SO. M ACRE SO. M AC						7,							. :				. **			
ALL 380.7 12.5 51 35 13 56 42.4 42.7 68.7 0.63 3.60 71.3 6.84 0.22 6.61  UG. 28/74  ALL 503.5 0.0 64 120 61 244 800.4 187.5 300.6 0.49 3.57 61.6 2.06 0.00 2.06  EP. 19/75  ALL 385.3 25.4 48 106 20 131 10.4 124.2 137.1 0.81 4.03 67.5 2.95 0.19 2.75  UG. 24/76  ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 6.01 0.34 5.67  UG. 14/79  ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.19 0.57 8.56  WETTED  FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ BISH/ FISH/ FISH/ FISH/ BISH/ FISH/ BISH/ FISH/ FISH/ BISH/ BIS				529.3	132.5	64	78	28	122	* 4	80.	9 .	103.	7 139.7	0.64	5.20	76.3	4.35	1.09	3.26
ALL 380.7 12.5 51 35 13 56 42.4 42.7 68.7 0.63 3.60 71.3 6.84 0.22 6.61  UG. 28/74  ALL 503.5 0.0 64 120 61 244 800.4 187.5 300.6 0.49 3.57 61.6 2.06 0.00 2.06  EP. 19/75  ALL 385.3 25.4 48 106 20 131 10.4 124.2 137.1 0.81 4.03 67.5 2.95 0.19 2.75  UG. 24/76  ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 6.01 0.34 5.67  UG. 14/79  ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.19 0.57 8.56  WETTED  FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ BISH/ FISH/ FISH/ FISH/ BISH/ FISH/ BISH/ FISH/ FISH/ BISH/ BIS																				
ALL 503.5 0.0 64 120 61 244 800.4 187.5 300.6 0.49 3.57 61.6 2.06 0.00 2.06  EP. 19/75 ALL 385.3 25.4 48 106 20 131 10.4 124.2 137.1 0.81 4.03 67.5 2.95 0.19 2.75  UG. 24/76 ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 8.01 0.34 5.61  UG. 14/79 ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.13 0.57 8.56  WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL SQ. M ACRE SQ. M				380.7	12.5	51	35	13	56		42.	4	42.	7 68.7	0.63	3.60	71.3	6.84	0.22	6.61
ALL 503.5 0.0 64 120 61 244 800.4 187.5 300.6 0.49 3.57 61.6 2.06 0.00 2.06 EP. 19/75 ALL 503.5 0.0 64 120 61 244 800.4 187.5 300.6 0.49 3.57 61.6 2.06 0.00 2.06 EP. 19/75 ALL 503.5 0.0 64 120 131 10.4 124.2 137.1 0.81 4.03 67.5 2.95 0.19 2.75 UG. 24/76 ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.20 4.55 73.0 6.01 0.34 5.67 UG. 14/79 ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.13 0.57 8.56 EP. 19/75 ALL 0.48 1961.8 0.00 0.0 0.48 1961.8 871.9 1.73 15.45 0.00 0.00 1.73 15.45 UG. 24/76 ALL 0.48 1961.8 0.00 0.0 0.48 1961.8 871.9 1.73 15.45 0.00 0.00 1.73 15.45 UG. 24/76 ALL 0.34 1372.3 5.14 20816.8 0.36 1469.1 526.6 1.37 12.19 20.73 184.92 1.46 13.05 UG. 24/76 ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13.33 118.93 0.80 7.16 UG. 14/79	AUG.	28/	74																	
ALL 385.3 25.4 48 106 20 131 10.4 124.2 137.1 0.81 4.03 67.5 2.95 0.19 2.75  UG. 24/76  ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 6.01 0.34 5.61  UG. 14/79  ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.13 0.57 8.56  WETTED  RIFFLE  POOL  RIFFLE  POOL  FISH/ SQ. M ACRE SQ. M A				503.5	0.0	64	120	61	244		800.	4	187.	5 300.6	0.49	3.57	61.6	2.06	0.00	2.00
UG. 24/76 ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 6.01 0.34 5.67  UG. 14/79 ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.13 0.57 8.56  WETTED FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FISH/ FOR ACRE SQ. M ACRE SQ	SEP.	19/	75																	
ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 6.01 0.34 5.67  UG. 14/79  ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.13 0.57 8.56  WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL SQ. M ACRE SQ.			ALL	385.3	25.4	48	106	20	131		10.	4	124.	2 137.1	0.81	4.03	67.5	2.95	0.19	2.75
ALL 442.1 25.1 48 21 15 74 2756.3 -31.5 178.5 0.29 4.55 73.0 6.01 0.34 5.67  UG. 14/79  ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.13 0.57 8.56  WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL SQ. M ACRE SQ.	NUG.	24/	76																	* °
ALL 445.2 27.9 50 32 11 49 27.4 38.3 59.2 0.66 5.88 77.3 9.13 0.57 8.56  WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL BY GM/ LB/ GM/ L					25.1	48	21	15 .	74	2	756.	3	-31.	5 178.5	0.29	4.55	73.0	6.01	0.34	5.67
WETTED RIFFLE POOL WETTED WETTED RIFFLE POOL GM/ LB/ G	WG.	14/	79	.*			1.				•					٠		•		
ECTION AGE SQ. M ACRE			ALL	445.2	27.9	50	32	. 11	49	÷ .	27.	4	38.	3 59.2	0.66	5.88	77.3	9.13	0.57	8.56
ECTION AGE SQ. M ACRE					ETTED		DI	EE1 E	. "		POÓ			WETTED	ÚE	TTED	DI		en.	01 -
ALL 0.23 930.4 0.92 3716.5 0.31 1241.0 632.7 1.20 10.66 4.78 42.60 1.59 14.22 UG. 31/73 ALL 0.15 591.9 4.45 18027.5 0.15 612.0 200.5 0.53 4.70 16.04 143.04 0.54 4.86 UG. 28/74 ALL 0.48 1961.8 0.00 0.0 0.48 1961.8 871.9 1.73 15.45 0.00 0.00 1.73 15.45 EP. 19/75 ALL 0.34 1372.3 5.14 20816.8 0.36 1469.1 526.6 1.37 12.19 20.73 184.92 1.46 13.05 UG. 24/76 ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13.33 118.93 0.80 7.16 UG. 14/79	SECTI	ON	AGE	FISH/	FISH		ISH/	FISH	/	FISH	1/	FIS	H/ E	TOTAL WT	GM/	LB/	GM/	LB/	GM/	
ALL 0.23 930.4 0.92 3716.5 0.31 1241.0 632.7 1.20 10.66 4.78 42.60 1.59 14.22 UG. 31/73 ALL 0.15 591.9 4.45 18027.5 0.15 612.0 200.5 0.53 4.70 16.04 143.04 0.54 4.86 UG. 28/74 ALL 0.48 1961.8 0.00 0.0 0.48 1961.8 871.9 1.73 15.45 0.00 0.00 1.73 15.45 EP. 19/75 ALL 0.34 1372.3 5.14 20816.8 0.36 1469.1 526.6 1.37 12.19 20.73 184.92 1.46 13.05 UG. 24/76 ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13.33 118.93 0.80 7.16 UG. 14/79		20/	70		1.19		**	** * * *			*									
ALL 0.15 591.9 4.45 18027.5 0.15 612.0 200.5 0.53 4.70 16.04 143.04 0.54 4.86  UG. 28/74  ALL 0.48 1961.8 0.00 0.0 0.48 1961.8 871.9 1.73 15.45 0.00 0.00 1.73 15.45  EP. 19/75  ALL 0.34 1372.3 5.14 20816.8 0.36 1469.1 526.6 1.37 12.19 20.73 184.92 1.46 13.05  UG. 24/76  ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13,33 118.93 0.80 7.16  UG. 14/79				0.23	930.	4	0.92	3716	.5	0.3	11	1241	.0	632.7	1.20	10.66	4.78	42.60	1.59	14.22
ALL 0.15 591.9 4.45 18027.5 0.15 612.0 200.5 0.53 4.70 16.04 143.04 0.54 4.86  UG. 28/74  ALL 0.48 1961.8 0.00 0.0 0.48 1961.8 871.9 1.73 15.45 0.00 0.00 1.73 15.45  EP. 19/75  ALL 0.34 1372.3 5.14 20816.8 0.36 1469.1 526.6 1.37 12.19 20.73 184.92 1.46 13.05  UG. 24/76  ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13,33 118.93 0.80 7.16  UG. 14/79	NUG.	31/	73	٠,																
ALL 0.48 1961.8 0.00 0.0 0.48 1961.8 871.9 1.73 15.45 0.00 0.00 1.73 15.45  EP. 19/75  ALL 0.34 1372.3 5.14 20816.8 0.36 1469.1 526.6 1.37 12.19 20.73 184.92 1.46 13.05  UG. 24/76  ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13.33 118.93 0.80 7.16  UG. 14/79				0.15	591.	9	4.45	18027	.5	0.1	5	612	.0	200.5	0.53	4.70	16.04	143.04	0.54	4.86
EP. 19/75 ALL 0.34 1372.3 5.14 20816.8 0.36 1469.1 526.6 1.37 12.19 20.73 184.92 1.46 13.05 UG. 24/76 ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13.33 118.93 0.80 7.16 UG. 14/79	NUG.	28/7	74																٠,	
ALL 0.34 1372.3 5.14 20816.8 0.36 1469.1 526.6 1.37 12.19 20.73 184.92 1.46 13.05 UG. 24/76 ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13.33 118.93 0.80 7.16 UG. 14/79	1		ALL	0.48	1961.	8	0.00	. 0	.0	0.4	8	1961	.8 .	871.9	1.73	15.45	0.00	0.00	1.73	15:45
UG. 24/76 ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13,33 118.93 0.80 7.16 UG. 14/79	SEP.	19/7	75											٠.				•:		•
ALL 0.17 672.8 2.93 11850.8 0.18 713.3 334.7 0.76 6.75 13,33 118.93 0.80 7.16			ALL	0.34	1372.	3	5.14	20816	. 8	0.3	16 .	1469	. 1	526.6	1.37	12.19	20.73	184.92	1.46	13.05
UG. 14/79						_											1			_ 04
			ALL	0.17	672.	8	2.93	11850	.8	0.1	8	713	. 3	334.7	0.76	6.75	13,33	118.93	0.80	7.16
ALL 0.11 443.3 1.75 7073.1 0.12 472.9 287.0 0.64 5.75 10.29 91.74 0.69 6.13																				
			ALL	0.11	443.	3	1.75	7073	. 1	0.1	2	472	. 9	287.0	0.64	5.75	10.29	91.74	0.69	6.13

Appendix XI. South Pachena Creek coho.

SECTION	AGE	AREA (	SQ.M) RIFFLE	ECT. LEN (M) M	c	R	POP.	VAR.	95 PER CONF. LOWER	LIMITS	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SC RIFFLE	
SEP. 13-	14/71	790.0	170.0	189 8	9 98	. 15	557	15293.6	309.5	804.2	2.65	55.6	1.42	0.31	1.11
SECTION	AGE	FISH/ SQ. M	FISH/		/ F			FISH/ ACRE	WETTED TOTAL WT (GM)		TTED LB/ ACRE	GM/ SQ. M	FFLE LB/ ACRE	GM/ SQ. M	LB/ ACRE
SEP. 13-	14/71	0.70	2852.8	3.2	8 13	256.9	0.90	3635.0	1475.7	1.87	16.66	8.68	77.43	2.38	21.23

SECT	ION AGE	AREA (S	Q.M)	LEN (M) C1	C2 POP	. VA	R. CON	PERCENT LIMITS R UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/F WETTED	ISH (SQ RIFFLE	
AUG.	23/72		•	- 1								1		
I	0	562.0	59.0	128 130	6 2			8 201.6 0 34.5		2.13 12.26	51.9 90.4	3.03	2.12	18.1
AUG.	28/73		*											
I	, I	414.1	19.4	90 36	6 2	11	8.5 2.	4 . 46.0	0.45		50.6 79.9	17.11	0.80	16.3
AUG.	28/74													
I	0	343.4	0.0	79 . 47	17 74 5 20	5 . 3	0.4 59 7.3 7	4 87.8 9 32.4		1.50		17.03	0.00	17.0
SEP.	19/75										-	*		
I	0	323.8	0.0	53 168	39 211 4 21		2.1 207. 2.3 21.	5 230.1 9 28.1		2.02 7.60	56.6 88.3	1.48	0.00	1.4
AUG.	24/76		* .									1. 15. 57		
1	0	402.3	83.1	64 151 19	18 17 0 19		4.0 167 0.0 19	4 175.4 0 19.0			50.2 78.1	2.35	0.48	1.8
		WE			FFLE			WETTED			RIF		PO	
SECT	ION AGE	FISH/ SQ. M	FISH/	FISH/ SQ. M	FISH/ ACRE	FISH/ SQ. M		TOTAL WT		ACRE	SQ. M	ACRE	SQ. M	ACRE
AUG.	23/72							•••						,
I	0	0.33	13373	3.15	12738.7	0.37	1494.2	395.6	0.70	6.28	6.70	59:81	0.79	7.0
	1	0.05	200.0	0.47	1904.8	0.06	223.4	340.5	0.61	5.40	5.77	51.47.	0.68	6.0
LUG.	28/73									*				
	0						. *			*			**	
		0.06	226 5	1.25	5048.3	0.06	248.1	142.9	0.35	3.08	7.37	65.70	0.36	3.2
	1	0.06	200.0											
	-	0.06	200.0						1					
IUG.	28/74	0.21	867.8	0.00	0.0	0.21	867.8	110.3	0.32	2.86	0.00	0.00	0.32	2.8
IUG.	28/74			0.00	0.0	0.21	867.8 237.7	110.3	0.32	2.86	0.00	0.00	0.32	
iug.	28/74	0.21	867.8	0.00										
NUG.	28/74 0 I 19/75	0.21	867.8 237.7	0.00								0.00		2.8
UG.	28/74 0 I	0.21	867.8 237.7	0.00	0.0	0.06	237.7	109.0	0.32	2.83	0.00	0.00	0.32	12.19
NUG.	28/74 0 I 19/75	0.21	867.8 237.7	0.00	0.0	0.06	237.7	109.0	1.36	12.15	0.00	0.00	1.36	12.19
SEP.	28/74 0 I 19/75 0 I	0.21	867.8 237.7	0.00 0.00 0.00 0.00	0.0	0.06	237.7 2734.5 312.5	109.0	0.32 1.36 0.59	2.83 12.15 5.23	0.00 0.00 0.00	0.00	1.36	2.86 2.85 12.15 5.25 6.86 3.0

SECT	ON AG	E WE	REA	(SQ:M) RIFFLI	SI	ECT: LEN (M)	C1	C2	POP		V	AR.	95 CON LOW	PERCEN F. LIM ER UP	T ITS PER	P	MEAN WEIGHT (GM)		AREA/ WETTED			
AUG.	30/77													. ,				*				
	0	3	352.6	72.	5	61	122	16	. 14	18		4.2	136	3 144 9 19	.5.	0.87	2.74 6.78	62.1 83.5	2.51		6 . 15:	
SEP.	19/78						٠													:		
1	0	. 3	375.5	67.6	6	64	130	7	13	7		0.5	136	0 138	.0	1.00	9.23	59.9 95.6	2.73 53.64		9 2. 6 43.	
	15/79							٠														
1	0	. 3	371.1	, 23.	В	63	419	45	46	20		0.4	463 19	.6 475	. 5	0.89	7.99	48.5	18.33		5 O. 8 17.	
	20/80									•												
1	. O		43.6	37.1	2	62	287	43	. 33	38 18 -		2.0	330	.0 345	, 7	0.85	1.72 7.47	52.9	19.28	2.0	9 17.	. 20
		1	1 16		10					-	-	11.1		,								
			FISH	WETTED FIS	SH/	FI	RI SH/	IFFLE FI	SH/	F	ISH/	POOL	ish/	WETTE	D WT	GM/	TTED LB/	GM/		GM,	POOL LE	3/
SECTI	ON AG	iE -	FISH,	WETTED FISM ACE	SH/ RE	F I	RI ISH/ D: M	IFFLE FI AC	SH/ ŔE	F 5	ISH/	POOL F	ISH/ CRE	WETTE TOTAL (GM)	D WT	GM/.	LB/ ACRE	GM/ SQ. M	FFLE LB/ ACRE	GM,	/ LB	3/
-	ON AG	E -	FISH,	WETTED / FIS M ACE	SH/ RE	SG	RI ISH/ O: M	IFFLE FI AC	SH/ ŔE	S	ISH/	POOL F	ISH/ CRE	WETTE TOTAL (GM)	D WT	GM/.	TTED LB/ ACRE	GM/ SQ. M	LB/	GM,	/ LB	3/
		iE -	0.40	M ACI	1.6	SC	. M	AC	RE 38.1	S	O.50	20:	28.8	(GM)	7	1.09	1TED LB/ ACRE 9.73 3.14	5Q. M	LB/	GM, 5Q.	M AC	25
AUG.	30/77	iE -	0.40	n ACI	1.6	SC	): M	78	RE 38.1	S	O.50	20:	28.8	(GM)	7	1.09	9.73	5Q. M	47.33	GM, 5Q.	M AC	25
AUG.	30/77 0 I	iE -	0.40	0 161 5 205	1.6 9.9	50	1.94 0.25	78 10	38.1 20.7 25.6	S	0.50 0.07	20: 20: 186	28.8 64.2	384. 124.	7 0	1.09 0.35	9.73	50. M 5.31 1.71	47.33	GM 50.	M AC 37 12.44 3.05 9.	25 .95
AUG. I SEP.	30/77 0 I 19/78 0 I	iE -	0.40	0 161 5 205 7 1480	1.6 9.9	50	1.94 0.25	78 10	38.1 20.7 25.6	S	0.50 0.07	20: 20: 186	28.8 64.2	384. 124.	7 0	1.09 0.35	9.73 3.14	50. M 5.31 1.71	47.33 15.26	GM 50.	M AC 37 12.44 3.05 9.	25 .95
AUG. I SEP.	30/77 0 I 19/78	iE -	0.40	7 1480 7 1480 7 1480	1.6 9.9 0.8 5.4	19	1.94 0.25 2.03 0.10	78 10 82 4	38.1 20.7 25.6 19.1	S	0.50 0.50 0.07 0.45 0.02	20: 20: 186	28.8 64.2 05.9 92.0	384. 124. 324. 64.	7 0 3 6	1.09 0.35 0.86 0.17	9.73 3.14	50. M 5.31 1.71 4.80 0.96	47.33 15.26	GM, SQ.	M AC 37 12.44 3.05 9.	25 .25 .95
AUG. I SEP. I AUG.	30/77 0 I 19/78 0 I 15/79	iE -	0.46 0.05 0.37 0.05	7 1480 7 1480 7 1480	1.6 9.9 0.8 5.4	19	1.94 0.25 2.03 0.10	78 10 82 4 798 34	38.1 20.7 25.6 19.1 20.2 43.4	S	0.50 0.07 0.45 0.02	200 20 188 54	28.8 64.2 05.9 92.0	384 124 324 64 590 161	7 0 3 6	1.09 0.35 0.86 0.17	9.73 3.14 7.70 1.54	50. M 5.31 1.71 4.80 0.96	47.33 15.26 42.78 8.53	GM, SQ.	M AC 37 12.44 3.05 8.21 1.70 15.	25 .25 .95

SECT	ION	AGE	AREA (	SQ.M) RIFFLE	SECT. LEN (M)	,°C1	C2	POP	· .	VAR.	95 CON LOW	PERCENT F. LIMIT ER UPPE		MEAN WEIGHT (GM)			FISH (SQ RIFFLE	
AUG.		73	414.1	19.4	90	38	25	. 11	1 1	990.7	21	.8 200	3 0.34	1.02	47.9	3.73	0.17	3.55
		1				2	2		٠.					12.08	10.4	74.0		
AUG.	28/7	74							•									.:
1		0	343.4	0.0	79	9	1	. 10	5	0.6	5 4	.8 26.6 .7 7.8	6 0.56 8 0.80	8.47	43.7 96.7	21.20 54.94	0.00	
SEP.	19/1	75																
I		0	323.8	0.0	53	46	13	6	٠	17.8	55	.7 72.0	6 0.72	1.17	49,5	5.05	0.00	5.0
AUG.															•.		. 3.3.	
1	14	0 .	402.3	83.1	64	43	11	5	3	11.8	51	.0 64,0	6 0.74	0.92 4.78	46.2 80.5	6.96	1.44	5.5
AUG.	30/7	77														1 1 1 1		
1		0	352.6	72.5	61	41	18	7	3	114.8	51		0.56		52.8 90.0	4.82 88.15	18.13	70.0
				ETTED	., -		FFLE			POOL		WETTED		TTED	RI	FFLE LB/	PO GM/	OL
SECT	ION	AGE	FISH/			ISH/	AC	SH/	SQ.	M	ACRE	TOTAL W	5Q. N	LB/	SQ. M			
AUG.	28/7	73					٠.,					*						7
I			0.27	1085.	6	5.73	231	71.6	0.2	8 1	138.9	113.0	0.27	2.43	5.83	51.97	0.29	2.5
AUG.	28/7	74	,										1 .					
I			Ó.05			0.00		0.0	0.0	5	190.9		0.04		0.00			0.3
		I	0.02	73.	7	0.00		0.0	0.0	2 .	73.7	52.9	0.15	1.37	0.00	0.00	0.15	1.3
SEP.	19/7	75														*		
1		0	0.20	801	.4	0.00		0.0	0.2	0	801.4	75.1	0.23	2.07	0.00	0.00	0.23	2.0
AUG.					_							1						
I		I	0.14	581.	3	0.70	28	14.0	0.1	8 .	732.6	53.2	0.13	1.18	0.64	5.71	0.17	1.4
AUG.	30/7	77																

SECTI	ON AGE	AREA (	SQ.M) RIFFLE	SECT. LEN (M)		C2	POP.		AR	CONF	PERCENȚ LIMITS R UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SG RIFFLE	
SED	19/78		. *							,	:			1. 1.			
I	0	375.5	67.6	64	48	3	51		0.3	50.2	52.2	0.94	1.43	52.6	7.33	1.32	6.0
•	1 .	0.0.0			2	o	2		0.0							33.80	153.9
AUG.	15/79																
I	0	371.1	23.8	63			99		4.6	95.					3.73		3.49
	1				7	0	7	٠.	0.0	7.0	7.0	1.00	7.71	90.4	53.01	3.40	49.6
AUG.	20/80																
	-	343.6	37.2	62		16.	70		44.7	56.5		0.64	1.08	46.3	4.92	0.53	
	1				10	1	11		0.2	10.3	11.9	0.80	12.94	107.5	30.92	3.35	27.5
	II				.0	1							30.00	144.0			
SECTI	ON AGE	FISH/ SQ. M		/ F	RI ISH/ Q. M			FISH/		SH/ 1	WETTED TOTAL WT (GM)	GM/	LD/	GM/ SQ. M	FLE LB/	GM/ SQ. M	LB/
			A-4 - 1 -								•				•		
	19/78			_								- 1-		4 00			
	0	0.14			0.76	3065					73.0 :			1.08		0.24	
		0.14			0.76	3065 119		0.17		3.0 6.3			1.73	1.08	9.63		
I	0																
AUG.	0 I 15/79 0	0.01	1083.	8	4.18	119	. 7	0.0	1 115	8.1	26.6	0.07	2.75	4.80	3.51	0.09	2.93
LUG.	0 I 15/79	0.01	21.	8	0.03	119	. 7	0.0	1 115	8.1	26.6	0.07	0.63	0.39	3.51	0.09	2.93
AUG.	0 I 15/79 0	0.01	1083.	8	4.18	119	. 7	0.0	1 115	8.1	26.6	0.07	2.75	4.80	3.51	0.09	2.93
AUG.	0 I 15/79 0 I	0.01	1083. 76.	8	4.18	119	.8	0.0	115	8.1	26.6	0.07	2.75	4.80	3.51	0.09 0.33 0.16	0.77 2.93 1.39
AUG.	0 I 15/79 0 I 20/80 0 I	0.01	21. 1083. 76.	8 3	0.03 4.18 0.29	16898 1190	8 3	0.0	1 115	8.1	26.6 114.3 54.0	0.07	2.75 1.30	0.39 4.80 2.27	3.51 42.62 20.22	0.09 0.33 0.16	2.93
AUG.	0 I 15/79 0 I 20/80	0.01 0.27 0.02	21. 1083. 76.	8 3	0.03 4.18 0.29	16898 1190	8 3	0.01	1 115	6.3 8.1 1.6	26.6 114.3 54.0	0.07 0.31 0.15	0.63 2.75 1.30	0.39 4.80 2.27	3.51 42.62 20.22	0.09 0.33 0.16	2.93 1.39

## Appendix table XI (cont'd) Cottus aleuticus

SECTION	AGE		SQ.M)			С	R	POP.	VAR.		LIMITS	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SO RIFFLE	
SEP. 13-	14/71 ALL		170.0	189	5	6	1	21	105.0	0.5	41.5	4.90	74.8	37.62	8.10	29.52
SECTION	AGE	FISH/ SQ. N		/ F	RIF		H/	FISH/ SQ. M	FISH/	WETTED TOTAL WT (GM)	GM/	TTED LB/ AGRE	RII GM/ SQ. M	LB/	GM/	OL LB/ ACRE
SEP. 13-	14/71 ALL	0.03	107.6	6 (	). 12	49	9.9	0.03	137.1	102.9	0.13	1.16	0.61	5.40	0.17	1.48

SECTION AG	AREA (	(SQ.M)	SECT. LEN (M)		C2	POP.	VAR.	CON	IF.	CENT LIMITS UPPER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SO RIFFLE	.M) P00
AUG. 23/72		59.0	128	22	11	44	132.	0 2	1.0	67.0	0.50	0.34	34.2	12.77	1.34	11.4
UG. 28/73	L 414.1	19.4	90	27	6	35	4.	5 30	).5	38.9	0.78	2.65	64.5	11.93	0.56	11.3
UG. 28/74		0.0	79	13	11	84	30673.	5 -26	5.8	434.8	0.15	2.32	60.5	4.06	0.00	4.0
EP. 19/75 AL		0.0	53	9	6	27	540.	0 -15	.5	73.5	0.33	4.01	70.6	11.99	0.00	11.8
UG. 24/76		83.1	64	46	30	132	2208.	5 36	1.3	226.2	0.35	2.20	58.3	3.04	0.63	2.4
ECTION AG	FISH/		/ F	RI ISH/	FIS	H/	POO FISH/ SQ. M	FISH/	TOT	AL WT	GM/	TTED LB/ ACRE	GM/	FFLE LB/ ACRE		· LB/
UG. 23/72											7	:		,		
ALI UG. 28/73 ALI				1.79		8.1	0.09	354.0		92.0	0.03		4.74	42.30		2.0
JG. 28/74 ALI				0.00		0.0	0.25	995.8		95.7	0.57		0.00			5.0
EP. 19/75 ALI		337.	5	0.00		0.0	0.08	337.5	1	08.4	0.33	2.99	0.00	0.00	0.33	2.
UQ. 24/76				,												

SECTI	ON			(SQ.M) RIFFLE			C2	POP.		VAR.		95 CONF LOWE		TS		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	).M) POO
AUG.			222.0								_									
I		ALL	352.6	72.5	61	64	29	117		213.	5	87.	8 146.	3 0.8	99	2.49	61.3	3.01	0.62	2.38
SEP.			375.5	67.6	64	80	32	133		138.	3	109.	8 156.	9 0.6	50	3.38	66.4	2.82	0.51	2.3
AUG. I			371.1	23.8	63	26	28		: .	. ;	٠					3.31	66.2			
AUG. I			343.6	37.2	62	32	13	54		59.	8 .	38.	4 69.	4 0.8	59	3.51	64.8	6.38	0.69	5.69
				VETTED		RI	FFLE	.,					WETTED		WET	TED	RİI		PO	
SECTI	ON	AGE		FISH A ACRE		Q. M	ACR		FISH				TOTAL W		4/ . M	ACRE		ACRE	SQ. M	ACRE
AUG.							11.				**	4.19								
I		ALL	0.33	1343.	2	1.61	6533	2.6	0.4	2	1690	0.9	291.6	0.	83	7.38	4.02	35.88	1.04	9.29
SEP.			0.36	1437.	0	1.97	7983	2.2	0.4	3	175:	2.5	451.2	1.	20	10.72	6.67	59.54	1.47	13.07
AUG.																				
AUG.	20/8	20																		
I			0.16	634.	8	1.45	5863	3.2	. 0 . 1	8	711	1.9	189.4	0.	55	4.92	5.09	45.41	0.62	5,51

SECTION	AGE	AREA (		SECT. LEN (M)	м	c i	R	POP.	VAR.	95 PER CONF. LOWER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH (SQ RIFFLE	M) POOL
SEP. 13-	14/71							,								t
1.	ALL	790.0	170.0	189	65	63	2	1408	472384.0	33.4	2782.6	10.80	94.0.	0.56	0.12	0.44
•		W	ETTED		RI	FFLE		P	OOL	WETTED	WE	TTED	·RI	FFLE	PO	OL .
SECTION	AGE	FISH/ SQ. M			ISH/ Q. M	FISH,	1	FISH/	FISH/ ACRE	TOTAL WY		LB/	GM/ SQ M	LB/ ACRE	GM/ SQ. M	LB/
SEP. 13-	14/71	4.								*						
1	ALL	1.78	7212.	9	8.28	33518	. 7	2.27	9190.6	15206.4	19.25	171.698	89.45	797.89	24.53	218.77

SECTI	ON .	AGE	AREA (		SECT. LEN (M)		C2	POP.	VAR.	CON	PERCEN F. LIM ER UP	ITS		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		FISH H (SQ RIFFIFFLE	.M) POOL
AUG.	23/7	2 ALL	562.0	59.0	128	96	55	225	1489	7 147	. 6 302	.0	0.43	7.80	86.7	2.50	0.20.26	2.24
AUG.			414.1	19.4	90	33	11	50	24.	7 39	.6 59	.4	0.67	6.00	83.2	8.37	0.30.39	7.97
AUG.	28/7	4 4 L	343.4	0.0	79	46	17	.73	. 54	5 58	.2 87	. 7	0.63	9.45	90.2	4.71	0.00.00	4.71
SEP.	19/7	5						*										
I AUG.	24/7	6	323.8		53		27			1 52				· .	88.6	2.91	0.00.00	2.91
I	- 1	ALL	402.3	83.1	64	53	24	. 97	176.	1 70	.3 123	.4	0.55	7.04	82.3	4.15	0.60.86	3.30
SECTI	ON.	AGE	FISH/	FISH ACRI	1/ 1	RI ISH/ SQ. M	FISH		FISH/ SQ. M	FISH/	TOTAL	WT.	GM/		GM/	FLE LB/ ACRE	GM GM/ SQ SQ M	LB/
AUG.			0.40	1618	7	3.81	15416	3.4	0.45	1808.5	1753.	3	3.12	27.63	29.72	265.07	3. 3.49	31.08
AUG.			0.12	483	.8	2.55	10326	6.1	0.13	507.5	297.	0	0.72	6.40	15.31	136.56	0, 0,75	6.71
AUG.			0.21	859	9	0.00		0.0	0.21	859.9	689.	4,	2,01	17.91	0.00	0.00	2. 2.01	17.91
SEP.	19/7		0.34	1391	9	0.00		0.0	0.34	1391.9	923.	3	2.65	25.43	0.00	0.00	2. 2.65	25.43
AUG.			0.24	974	4	1.17	4717	.2	0.30	1228.1	681.	6	1.69	15.11	8.20	73.16	2. 2.14	19.05

SECTIO		AGE		SQ.M) RIFFLE			C2		V	IR.	CONF.	ERCENT LIMITS UPPER	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/	FISH (SQ RIFFLE	M) POOL
AUG. 3	0/77		352.6	72.5	61	36	18	72	2	16.0	42.6	101.4	0.50	7.78	86.2	4.90	1.01	3.89
SEP. 1			375.5	67.6	64	50	23	93	18	11.7	65.6	119.5	0.54	10.52	92.1	4.06	0.73	3.33
AUG. 1			371.1	23.8	63	53	18	. 80		13.1	67.1	93.4	0.66	8.89	89.7	4.62	0.30	4.33
AUG. 2			343.6	37.2	62	61	20	91		2.7	77.7	103.8	0.67	6.90	80.2	3.79	0.41	3.38
SECTIO	N A	AGE	FISH/ SQ. M		/ F	RI ISH/ Q. M	FFLE FISH ACRE	4/	FISH/ SQ. M	FI	SH/ T	WETTED OTAL WT (GM)	GM/ SQ. M	TTED LB/ ACRE	GM/	LB/		LB/
AUG. 3			0.20	826.	4	0.99	4019	9.1	0.26	104	0.3	559.8	1.59	14.16	7,72	68.88	2.00	17.83
SEP. 1			0.25	997.	9	1.37	5543	3.2	0.30	121	7.0	974.5	2.60	23.15	14.42	128.59	3.16	28.23
AUG. 1	5/79		0.22	875.	2	3.37	13647	7.1	0.23	93	5.2	713.3	1.92	17.14	29.97	267.32	2.05	18.32
AUG. 2			0.26	1068.	9	2.44	9873	1.4	Q.30	119	8.7	626.0	1.82	16.25	16.83	150.11	2.04	18.23

					* *											
		AREA (S	(M.D		Ĺ.	c .	R	POP.	VAR.	95 PER CONF. LOWER		MEAN WEIGHT (GM)	MEAN LENGTH (MM)		/FISH (SQ RIFFLE	
SEP. 13-			0.0	155	65	52	12	269	3903.1	144.1	394.0	2.54	55.3	3.70		
SECTION	AGE		FISH ACRE	3/	RI FISH/ SQ. M	FI	SH/	FISH/ SQ. M	FISH/	WETTED TOTAL WT (GM)	GM/	TTED LB/ ACRE	GM/	FFLE LB/ ACRE	GM/	LB/ ACRE
SEP. 13-		0.27	1094.	4	٠.					683.5	0.69	6.13				
APPENDIX		NORTH PA	ACHENA C	REEK	RAINB	OW		•								
SECTION	AGE	AREA (S	Q.M)			С	R	POP.	VAR .	95 PER CONF. LOWER	LIMITS	MEAN WEIGHT (GM)	MEAN LENGTH (MM)		/FISH (SQ RIFFLE	
SEP. 13-	14/71 0 I	995.0	0.0	155	28	17	3	131		27.6 0.4	233.4			7.62 56.86		
SECTION		FISH/ SQ. M	FISH	/	RI FISH/ SQ. M	FI	SH/ RE	FISH/ SQ. M	FISH/	WETTED TOTAL WT (GM)	GM/	TTED LB/ ACRE	GM/		GM/	LB/
SEP. 13-	14/71 0 I	0.13	530. 71.							229.7	0.23		** **			

		*														
SECTION		AREA (	SQ.M)	SECT. LEN (M)		C.	R	POP.	VAR.	95 PER CONF. LOWER.		MEAN WEIGHT (GM)			FISH (SQ.	
SEP. 13-			0.0	155	2	5	0	18	135.0	-5.2		9.00	89.6	55.28		
SECTION	AGE	FISH/	FISH	/ · · F	RIF ISH/ Q. M	FI	SH/	FISH/ SQ. M	FISH/	WETTED TOTAL WT (GM)		LB/	GM/	LB/	GM/ SQ. M	LB/
SEP. 13-							.*			162.0	0.16				4,	
APPENDIX		NORTH P	ACHENA C	REEK	COTTUS	S ASP	ER									
SECTION	AGE	AREA (	SQ.M)	SECT. LEN (M)		С	R	POP.	VAR.	CONF.		MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/	FISH (SQ	(M)
SEP. 13-		995.0	0.0	155	23	24	1	300	27600.0	-32.3	632.3	17.50	115.8	3.32		
SECTION	AGE	FISH/ SQ. M	FISH ACRE	/ F	RIF ISH/ Q. M	FI	SH/	FISH/ SQ. M	FISH/	TOTAL WT	GM/	LB/ ACRE	GM/	LB/ ACRE	GM/ SQ. M	LB/

														1 -1		*
SECTION	AGE	AREA (		SECT LEN (M)		С	R	POP.	VAR.		LIMITS	MEAN WEIGHT (GM)	MEAN LENGTH (MM)			(SQ.M) E POOL
SEP. 9/7	1					7								: .:		
I	0	598.0	-	116	70	78	6	801	73145.9	260.4	1342.2	2.18	56.5	0.75		
	1				. 21	24	. 5	92	912.3	31.3	152.1.	9.54	90.7	6.52		
	II				8	8	2	27	121.5	5.0	49.0	15.57	106.1	22.15	* 1	1 4 100
	III				7	9	. 2	.27	. 124.4	4.4	49.0	28.64	131.1	22.43		
			ETTED		RI	FFLE		Pi	DOL	WETTED	WE	TTED	RI	FFLE		POOL
SECTION	AGE	FISH/	FISH		FISH/	FI	SH/ RE		FISH/ ACRE	TOTAL W		LB/	GM/	LB/	GM/ SQ.	/ LB/
SEP. 9/7	4	, .		٠٠٠,	, ,					4. 4	.,					11, . :
1		1.34	5422.	7 .						1746.8	2.92	26.06				* . * / * .
•	ĭ	. 0.15								874.5						
	II	0.05														
	III	0.04			,					420:4	1.28					
, ,	.11	0.04	180.	J						763.7	1.20	11.39				
															4 7	

ppend1	x tabl		(cont'd								ERCENT		MEAN	MEAN		(		
SECTION	AGE	AREA (	SQ.M) RIFFLE	(M)	C1	C2	POP.	VAR N		NF.		, Р	(GM)	(MM)		FISH (SO	POOL	
UG. 3/	772	347.4	82.6	85	42	19	77	138		3.1		0.55	1.38	48.5	4.53	1.08	3.45	
	III II				13 3	20 5 0	114 21 3	15 18 0		6.0 2.5 3.0	29.7	0.77 0.62 1.00	7.87 18.50 49.00	84.5 117.6 166.0	3.05 16.44 115.80	0.73 3.91 27.53	2.33 12.53 88.27	
ug. 30	0/73 0 I	191.7	38.3	. 59	130 24 2	24 1 0	159 25 2		.1 2	2.5	25.5	0.82	1.83 10.96 33.09	57.0 101.8 153.5	1.20 7.65 95.85	0.24 1.53 19.15	0.96 6.13 76.70	
UG. 29					•	•	-									,		
I	111 111	234.2	46.4	61	75 36 5 3	30 5 1	125 42 6	0	.4 '3	2.2 9.4 4.7 3.0	44.2 7.8	0.60 0.86 0.80 1.00	1.58 7.70 22.50 45.32	52.6 92.7 133.7 171.0	1.87 5.60 37.47 78.07	0.37 1.11 7.42 15.47	1.50 4.49 30.05 62.60	1.
EP. 20																		
	I	216.5	36. 6	60	86 16 7	26 6 1	123 26 8	20	.3 1		. 34.6	0.70 0.63 0.86	1.88 8.63 22.60	95.4 133.1	1.76 8.46 26.51	0.30 1.43 4.48	1.46 7.03 22.03	. 5
ECTION	. AGE	FISH/			RI ISH/ Q. M	FFLE FISH ACRE		FISH/ SQ. M	FISH/		WÊTTED DTAL WT (GM)	GM/ SQ. M	TTED LB/ ACRE	GM/	FFLE LB/	GM/ SQ. M	DOL LB/ ACRE	4
								,									-	
UG. 3/	0 1	0.22	1326.7		0.93	3757 5579		0.29	1172.2		105.8	0.30	2.72	1.28	11.43		3.57 30.19	
	111	0.06			0.26	1035		0.08	322.9 45.8		390.8 147.0	0.42	3.77	4.73	15.87		13.16 4.95	1
ug. 30	0	0.83			4.16 0.65	16846		1.04	4206.2 660.7		291.9	1.52	13.58	7.62 7.17	67.98 63.92		16.97 15.96	
	iı	0.01			0.05	211		0.01	52.8		66.2	0.35	3.08	1.73	15.41		3.85	
IUG. 29	0 I II III	0.53 0.18 0.03 0.01	722.4	4	2.69 0.90 0.13 0.06	10902 3646 .545 261	.4 .	0.67 0.22 0.03 0.02	2693.7 900.9 134.7 64.6		197.0 322.1 140.6 136.0	0.84 1.38 0.60 0.58	7.50 12.27 5.36 5.18	4.25 6.94 3.03 2.93	37.87 61.92 27.03 26.14	1.72	9.36 15.30 6.68 6.46	
EP. 20	0/75 I II	0.57 0.12 0.04	478.5	5	3.37 0.70 0.22	13630 2830 903	7.7	0.69 0.14 0.05	2773.0 575.9 183.7		231.8 220.9 184.5	1.07	9.55 9.10 7.60	6.33 6.03 5.04	56.48 53.83 44.98	1.23	1.1.49 10.95 9.15	

SECTION	AGE	AREA (	5Q.M)	SECT LEN (M)		C2	POP.		VAR.	. C	ONF.	RCENT LIMITS UPPER	P	MEAN WEIGHT (GM)	MEAN LENGTH (MM)	AREA/	RIFISH	i (SQ	).M) POOL
AUG. 13	/79									_						0.00	_		
I	0	199.7	15.0	46		0.	22		0.0	0	22.0	22.0	1.00	1.45	107.0	9.08	0.	0.68	8.40
	1				2	2	8		24.		-1.8	17.8	0.50	20.11	126.8	24.96	1.		0.40
	111	2.4	14		2	0	2		0.		2.0		1.00	62.26	185.0	99.85	7.	1.88	23.09
AUG. 21	/80											, .						*	
I	0	288.8	18.9	57	14	15								1.75	54.5				
	I.				7	.2	10		2.		6.4		0.71	12.41	106.8	29.47	1		
	II				- 1	0			0.0		1.0		1.00	46.97	168.0	288.80	18.		27.54
	III				1	.0	1		0.	0	1.0	1.0	1.00	75.62	200.0	288.80	18.1		269.90
٠,	,	W	ETTED	**	RI	FFLE		•	POO	L		VETTED		TTED		FFLE	-		
SECTION	AGE	FISH/ SQ. M			FISH/ SQ. M	ACRE		FISI		FISH		(GM)	SQ. M	ACRE	SQ. M	ACRE		GM/ SQ. M	LB/ ACRE
AUG. 13	/79																-		
1	0	0.11	445.	8	1.47	5935	5.6	0.	12	482.	0	31.8	0.16	1.42	2.12	18.93		0.17	1.54
	II	0.04	162.	1	0.53	2158	3.4 .	0.0	04	175.	3	160.9	0.81		10.72				
	III	0.01	40.		0.13	539	9.6	0.0	01	43.	8	124.5	0.62	5.56	8.30	74.05	0	0.87	6.01
	100																	0.67	6.01
AUG. 21	/ 60											* * *					- 2		
AUG. 21	0 0																		
AUG. 21		0.03			0.52	2098		0.		146.		121.6	0.42		6.43				
AUG. 21	0	0.00	14.	0	0.52 0.05 0.05	2098	1.1	0.0	00	146. 15.	0.	121.6 47.0 75.6	0.42 0.16 0.26	1.45		22.17	0.	0.45	4.02

Appendix table XIV. Fish length data.

																RAN	IOF .	
10	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR "	. \$	SXBAR	25	S*S	C.I.MIN	C.I.MAX		MAX	
LOC	G CARN	70.	1607	150m	PS	соно	0	51	49.176	4.502	0.630	9.004	20.268	47.909	50.444	40	62	
LOC	G CARN	70	0208	35m	PS	соно	0	44	48.614	5.504	0.830	11.007	30.289	46.946	50.281	40	64	
	G CARN	70	0508		SF	СОНО	0	92	51.043	5.703	0.595	11.406	32.526	49.866	52.221	37	63	
LOC	G CARN	70	0508	2000	SF	COHO	0	36	48.396	5.414	0.553	10.829	29.315	47.302	49.490	40	63	
LOC	G CARN	70		TOTL	SF	COHO	0	190	49.758	5.706	0.414	11.411	32.555	48.938	50.577	37	63	
LOC	G CARN	70	0508	TOTL	SF	COHO	1	26	75.808	9.394	1.842	18.787	88.242	72.013	79.603	64	98	
	G CARN	70		100m	PS	COHO	0	26	50.692	6.098	1.196	12.195	37.182	48.229	53.156	40	64	
	G CARN	70		TOTL	PS	COHO	0	57	48.053	4.631	0.613	9.261	21.444	46.826	49.279	40	62	
	G CARN	70	1409	400m	SF	COHO	0	266	54.440	7.420	0.455	14.840	55.055	53.539	55.341	38	80	
LO	G CARN	70	1409	2000	SF	COHO	0	270	50.274	5.758	. 0.350	11.517	33.159	49.580	50.968	40	66	
LOC	G CARN	70	1409	TOTL	SF	COHO	1	47	76.979	6.539	0.954	13.078	42.760	75.062	78.896	66	93	
	G CARN	70	0608	TOTL	SF	RBT	0	23	40.304	3.878	0.809	7.756	15.040	38.630	41.978	35	49	
	G CARN	70		TOTL	SF	RBT	1	18	71.778	4.066	0.958	8.133	16.536	69.755	73.800	64	77	
	G CARN	70		TOTL	SF	RBT	2	32	94.531	9.692	1.713	19.384	93.934	91.053	98.009	81	113	
LOC	G CARN	70	0608	TOTL	SF	RBT	3	13	139.077	18.464	5.121	36.928	340.910	127.913	150.241	118	180	
	G CARN	70		TOTL	PS	RBT	o	36	37.872	3.103	0.517	6.206	9.628	36.922	39.022	32	46	
	G CARN	70		TOTL	SF	RBT	0	. 48	49.771	4.392	0.634	8.783	19,287	48.497	51.045	39	57	
-	G CARN	70		TOTL	SF	RBT	1	29	73.897	7.223	1.341	14.445	52.167	71.147	76.646	61	90	
	G CARN	70		TOTL	SF	RBT	2	50	95.740		1.795	25.381	161.053	92.133	99.347	74	121	
LO	G CARN	70	1409	TOTL	SF	RBT	3	9	161.111	34.294	11.431	68.589	1176.111	134.704	187.516	129	228	
LO	G CARN	71	1703	FENC	TR	COHO	1	23	69.174	4.830	1.007	9.661	23.332	67.089	71.259	60	77	
	G CARN	71		FENC	TR	COHO	2	6	80.167		5.862	28.717	206.167	65.102	95.232	70	108	
	G CARN	71		FENC	TR	COHO	1	31	69.935	5.372	0.965	10.745	28.862	67.967	71.904	60	77	
LO	G CARN	71	2403	FENC	TR	COHO	2	10	82.700	10.001	3.162	20.001	100.011	75.553	89.847	70	100	
LO	G CARN	71	3103	FENC	TR	. COHO	1	35	70.543	5.221	0.882	10.441	27,255	68.751	72.334	60	79	
LO	G CARN	71	3103	FENC	TR	COHO	2	. 24	86.583	11.017	2.249	22.035	121.384	81.928	91.239	72	116	
LO	G CARN	71	0704	FENC	TR	COHD	1 -	40	70.850	5.847	0.924	11.693	34.182	68.983	72.717	61	83	
	G CARN	71		FENC	TR	COHO	2	10	92.600		3.959	25.037	156.711	83.653	101.547	82	115	
	G CARN	71		FENC	TR	COHO	1	66	71.682	6.726	0.828	13.451	45.236	70.034	73.329	60	92	
LO	G CARN	71	1404	FENC	TR	COHO	2	26	97.731	12.207	2.394	24.413	149.005	92.799	102.662	83	130	
	G CARN	71		FENC	TR	COHO	1	61	72.344	7.508	0.961	15.015	56.363	70.422	74.267	60	89	
LO	G CARN	71	2104	FENC	TR	COHO	2	17	94.000	8.660	2.100	17.321	75.000	89.547	98.453	84	113	
	G CARN	71		FENC	TR	COHO	1	65	72.785	7.238	0.898	14.476	52.390	70.998	74.571	60	93	
	G CARN	71		FENC	TR	COHO	2	28	100.679	10.562	1.996	21.124	111.560	96.587	104.771	85	122	
LO	G CARN	71	0505	FENC	TR	COHO	1	12	73.333	9.432	2.723	18.865	88.970	67.343	79.324	60	91	
	G CARN	71	0505	FENC	TR	COHO	2	24	112.500	11.762	2.401	23.524	138.348	107.530	117.470	93	150	
	G CARN	71	2004	TOTL	SF	COHO	0	24	37.375	1.313	0.268	2.625	1.723	36.820	37.930	34	39	
	G CARN	71		TOTL	SF	COHO	0	154	37.656	1.134	0.091	2.268	1.286	37.475	37.837	33	41	
	G CARN	71		TOTL	SF	COHO	0	45	39.978	2.650	0.395	5.300	7.022	39.184	40.772	36	51	
	G CARN	71		TOTL	P\$	COHO	0	120	38.683	1.506	0.137	3.012	2.269	38.411	38.956	33	42	
	G CARN	71		TOTL	SF	COHO	0	42	41.643	3.252	0.502	6.504	10.577	40.634	42.652	38	52	
LO	G CARN	71	1207	TOTL	PS	COHO	0	113	41.319	3.780	0.356	7.561	14.290	40.614	42.023	36	61	
	G CARN	71		TOTL	P5	COHO	0	41	43.049	3.943	0.616	7.886	15.548	41.805	44.293	38	55	
-	G CARN	71		TOTL	SF	COHO	0	189	47.381	8.176	0.595	16.352	66.843	46.203	48.558	38	68	
	G CARN	71		TOTL	SF	COHO	1	109	73.128	8.387	0.803	16.773	70.335	71.538	74.719	57	94	
	G CARN	71		0620	PS	COHO	0	29	43.276	2.902	0.539	5.804	8.421	42.171	44.381	38	48	
	G CARN	71	2408		PS	COHO	0	55	41.836	2.363	0.319	4.726	5.584	41.199	42.474	38	47	
	G CARN	71		TOTL	PS	COHO	0	83	42.373	2.626	0.288	5.252	6.895	41.800	42.947	38	48	
	G CARN	71	1509	23	SF	COHO	0	249	48.819	6.148	0.390	12.295	37.794	48.048	49.591	38	. 66	
FOC	G CARN	71	1509	23	SF	соно	1	.44	78.295	7.331	1.105	14.663	53.748	76.074	80.517	65	98	

																RAN	IGE	
ID :	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N.	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX		MAX	
Logg	CARN	71	1509	468	SF	соно	0	260	47.565	5.595	0.347	11.190	31.305	46.878	48.252	38	66	
	CARN	71	1509	468	SF	СОНО	1	32	77.625	8.335	1.473	16.669	69.468	. 74.634	80.616	64	. 96	
	CARN	71		TOTL	SF	COHO	0	511	48.094	5.784	0.256	11.569	33.458	47.587	48.601	38	66	
	CARN	71		TOTL	SF	COHO	1	79	77.443	8.106	0.912	16.213	65.711	75.628	79.258	62	98	
	CARN	- 71	0610		PS	COHO	0	35	45.429	4.487	0.758	8.974	20.134	43.889	46,968	35	57 .	
	CARN	71	0610		PS	СОНО	0	22	46.091	4.093	0.873	8.186	16.753	44.276	47.906	38	53	
	CARN	71		1450	PS	COHO	0	35	44.800	3.324	0.562	6.647	11.047	43.660	45.940	40	. 56	
	CARN	71		TOTL	PS	COHO	0	92	45.348	3.971	0.414	7.942	15.768	44.528	46.168	. 35	57	
	CARN	7-1		TOTL	PS	RBT	0	34	32.324	0.945	0.162	1.889	0.892	31.995	32.652	30	35	
	CARN	71		0400	SF	RBT	0	34	35.618	3.652	0.626	7.303	13.334	34.346	36.889	32	46	*
	CARN	71		2000	SF	RBT	.0	30	36.233	4.500	0.822	9.001	20.254	34.557	37.910	30	47	
	CARN	71	-	TOTL	SF	RBT	0	64	35.906	4.050	0.508	8.100	16.404	34.899	36.914	. 30	47	
	CARN	71	0308	TOTL	SF	RBT	1	46	76.326	6.617	0.976	13.233	43.780	74.365	78.287	60	88	
	CARN	71		TOTL	SF	RBT	2	26	99.885	7.581	1.487	15.161	57.466	96.822	102.947	91	118	
	CARN	71		TOTL	SF	RBT	3	19		13.554	3.110	27.109	183.719	132.523	145.583	121	172	
	CARN	71		TOTL	PS	RBT	0	61	37.820	3.631	0.465	7.262	13.184	36.890	38.749	30	47	
	CARN	71	1509		SF	RBT	0	68	40.382	4.700	0.570	9.400	22.090	39.248	41.517	31	. 53	
	CARN	71	1509		SF	RBT	0	71	40.606	4.695	0.557	9.390	22.042	39.497	41.714	33	53	
	CARN	71		TOTL	SF	RBT	0	139	40.496	4.682	0.397	9.363	21.918	39.710	41.283	31	53	
	CARN	71	1,219,00	TOTL	SF	RBT	1	43	79.837	6.502	0.992	13.005	42.282	77.844	81.830	64	92 .	
and the state of	CARN	71		TOTL	SF	RBT	2	- 16	107.250	7.066	1.767	14.133	49.933	103.487	111.013	. 94	120	
-	CARN	71		TOTL	SF	RBT	. 3	14	141.571	15:421	4.121	30.842	237.802	132.669	150.474	126	177	
	CARN	71		TOTL	PS	RBT	0	49	41.388	4.353	0.622	8.706	18.951	40.138	42.638	34	52	
LOGG	CARN	71	0208	2	PS	ALUT		411	55.655	12.078	0.596	24:157	145.885	54.475	: 56.834	. 37	108	
LOGG	CARN	71	1609	2	S	ALUT	-	344		11:313	0.610	22.627	127.993	55.757	58.173	. 41	100	
	CARN	71	1609	3	. 5	ALUT	-	53	79.642		2.129	30.997	240.196	75.384	83.899	.51	106	
	CARN	71	0609	4	5	ALUT	-	52	82.212		1:908	27.512	189.229	78.396	86.027	56	117	
	CARN	71	1609	6	S	ALUT	-	40	88.075		2.114	26.742	178.789	83.804	92.346	71	117	
	CARN	71	1609	8	S	ALUT	***	73	80.466		1.328	22.699	128.808	77.822	83.109	60	104	
	CARN	71	0208	2	PS	ASPR	-	39	79.769		2.497	31.185	243.130	74.726	84.813	50	115	
	CARN	71	1609	2	S	ASPR	-	58	78.638		2.424	36.927	340.902	73.789	83.487	56	135	
	CARN	71		FRED	SF	СОНО	0	221	53.439	8.485	0.571	16.970	71.993	52.309	54.569	. 39	80	
	CARN	71	1409		5	ASPR	-	249		18.592	1.178	. 37.185	345.677	71.466	76.132	. 33	145	
	CARN	71	1309		SF	СОНО	0	173	54.064	9.480	0.721	18.960	89.874	52.636	55.491	41	87	
	CARN	71		PACH	SF	COHO	1	10	96.800	6.697	2.118	13.393	44.844	92.014	101.586	88	108	
	CARN	71	1309		SF	RBT	0	88	48.795	5.135	0.547	10.271	26.371	47.706	49.885	39	63	
	CARN	71		PACH	SF	RBT	1	15	94.067	7.824	2.020	15.647	61.210	89.744	98.390	80	109	
	CARN	71		PACH	SF	RBT	3	3	132.333	10.408	6.009	20.817	108.333	106.494	158.173	124	144	
	CARN	71		PACH	S	ASPR	-	126	94.095	18.781	1:673	37.563	352.743	90.782	97.408	62	160	
	CARN	71		NPAC	SF	COHO	0	106	55.349	9.668	0.939	19.336	. 93.467	53.490	57.208	40	84	
Logg	CARN	71	1309	NPAC	SF	RBT	0	44	52.886	7.875	1.187	15.749	62.010	50.500	55.273	38	73	
	CARN	71		NPAC	SF	RBT	1	7	105.857	3.132	1.184	6.264	9.810	102.957	108.757	101	110	
	CARN	71		NPAC	5	ASPR	-		115.766	22.018	3.212	44.036	484.792	109.311	122.221	78	188	
	CARN	71	0909		SF	CT	0	145	56.469	6.640	0.551	13.279	44.084	55.377	57.561	39	74	
	CARN	7.1	0909		SF	CT	1	44	90.750	5.104	0.769	10.208	26.052	89.203	92.297	. 78	100	0
	CARN	71		RITH	SF	CT	2	14	106.071	4.009	1.071	8.018	16.071	103.757	108.386	101	114	
LOGG	CARN	71	0909	RITH	SF	CT	3	11	131.091	14.272	4.303	28.544	203.691	121.495	140.687	117	163	
	CARN	72	1304		TR	соно	1	64	72.563	6.421	0.803	12.843	41.234	70.965	74,160		89	
LOGG	-	72	1304	FENC	TR	COHO	2	17	94.647	7.237	1.755	14.473	52.368	90.926	98.368	82	108	
LOGG	CARN	72	1904	FENC	TR	COHO	1	50	73.520	7.049	0.997	14.097	49.683	71.516	75,524	61	.90	

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ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	\$*5	C.I.MIN	C.I.MAX	MIN	MAX
LOG	G CARN	72	1904	FENC	TR	COHO	. 2	20	93.500	6.428	1,437	12.855	41.316	90.496	96.504	81	105
LOG	G CARN	72	2604	FENC	TR	COHO	1	177	75.390	6.862	0.516	13.725	47.091	74.369	76,411	61	93
LOG	G CARN	72	2604	FENC		COHO	2	61	95.902	6.816	0.873	13,632	46.457	94.156	97.647	82	109
LOG	G CARN	72		FENC	TR	COHO	1	241	76.207	7.500	0.483	15.000	56.248	75.251	77.164	60	93
	G CARN	72		FENC	TR	COHO	2	112	99.911		1.034	21.888	119.776	97.863	101.958	81	136
	G CARN	72		FENC	TR	COHO	1	51	75.843	9.061	1.269	18.121	82.095	73.293	78.393	60	92
	G CARN	72		FENC	TR.	COHO	2	54	112.370	8.313	1.131	16.626	69.106	110.108	114.633	98	137
	G CARN	72		FENC	TR	COHO	1	57	88.193	13.374	1.771	26.749	178.873	84.650	91.736	60	113
	G CARN	72		FENC	TR	COHO	2	51	,112.784	7.867	1.102	15.734	61.893	110.570	114.999	100	136
	G CARN	72		FENC	TR	COHO	1	89	93.955	8.668	0.918	17.336	75.134	92.127	95.783	68	114
	G CARN	72		FENC	TR	COHO	2	67	109.239	7.650	0.935	15.299	58.518	107.379	111.099	98	108
	G CARN	72		FENC	TR	COHO	1	79	93,025	8.089	0.910	16.178	65.435	91.214	94.836	89	127
	G CARN	72		FENC	TR	COHO	2	49	106.612	9.101	1.300	18.202	82.826	103.999	96.717	80	108
	G CARN	72		FENC	TR	COHO	1	48	94.854	6.421	0.927	12.843	41.234	92.991	119.175	104	131
	G CARN	72		FENC	TR	COHO	2	24	115.625	8.402	1.715	16.804	70.592	112.075	94.590	71	108
	G CARN	72		FENC	TR	COHO	1	87	92.908	7.885	0.845	15.771	62.177	91.226	115.611	97	136
	G CARN	72		FENC	TR	COHO	2	24	111,958	8.645	1.765	17.290	74.737	108.305	101.192	65	117
-	G CARN	72		FENC	TR	COHO	1	56	98.429	10.339	1.382	20.679	106.904	116.519	124.695	105	143
	G CARN	72		FENC	TR	COHO	2	28	120.607	10.553	1.994	21.105	3.184	37.969	38.837	36	43
	G CARN	72	2405	2		COHO	0	67	38.403	1.784	0.218	2.000	1.000	61.517	66.483	63	65
	G CARN	72	2405	2		COHO	1		64.000		0.577		56.410	56.383	64.683	49	75
-	G CARN	72	2405	. 3		COHO	. 1	15	60.533	7.511	1.939	15.021 3.259	2.655	38.217	38.863	34	45
-	G CARN	72	2405	4	PS	COHO	0	100	38.540	1.629	0.163	12.180	37.090	57.931	62.949	- 51	73
	G CARN	72	2405	4		COHO	1	25 55	60.440	6.090	1.218	2.959	2.189	36.783	37.581	33	40
	G CARN	72 72	2505 2505	6		COHO	0	8	37.182 59.000	1.479	0.199 3.645	20.619	106.286	50.398	67.602	46	77
	G CARN	72	2505	. 8	PS	COHO	0	51	37.922	0.891	0.125	1.782	0.794	37.671	38.172	36	40
	G CARN	72	2505	. 8	PS	COHO	1	25	57.240	5.562	1.112	11, 125	30.940	54.948	59.532	47	68
	G CARN	72	2405		PS	COHO	1	76	59.395	6.729	0.772	13.458	45.282	57.859	60.931	46	77
	G CARN	72	1906	2	PS	COHO	o	68	39.235	2.306	0.280	4.612	5.317	38.679	39.792	35	45
	G CARN	72	1906	. 2		COHO	1	16	74.125	12.706	3.177	25.413	161.450	67.359	80.891	53	101
	G CARN	72	2006	3		COHO	0	74	39.230	2.193	0.255	4.386	4.810	38.722	39.737	36	48
	G CARN	72	2006	3		COHO	1	15	70.333	8.516	2.199	17.032	72.524	65.628	75.039	56	95
	G CARN	72	2006	4	PS	COHO	o	28	38.607	2.393	0.452	4.787	5.729	37.680	39.534	34	43
	G CARN	72	2006	4	PS	COHO	1	42	68.024	9.222	1.423	18.444	85.048	65.164	70.884	55	102
	G CARN	72	2006	6		COHO	o	95	39.242	1.861	0.191	3:721	3.462	38.864	39.620	37	49
	G CARN	72	2006	. 6		COHO	1	40	67.325	8.751	1.384	17.502	76.584	64.530	70.120	53	82
	G CARN	72	2006	. 8	PS	COHO	o	26	40.731	1.458	0.286	2.915	2.125	40.142	41.320	38	44
	G CARN	72	2006	. 8	PS	COHO	1 .	26	66.000	5.906	1,158	11.812	34.880	63.614	68.386	55	76
	CARN	72	2006	_	PS	COHO	1	138	68.428	9.180	0.781	18.360	84.276	66.880	69.975	53	102
-	G CARN	72	3107	2	S	COHO	Ó	79	43.228	5.191	0.584	10.382	26.947	42.066	44.390	35	60
	G CARN	72	3107	2		COHO	1	18	72.944	9.289	2.190	18.579	86.291	68.325	77.564	58	86
	G CARN	72	0108	3		COHO	0	63	45.222	6.290	0.792	12.580	39.563	43.645	46.799	36	66
	G CARN	72	0108	3		COHO	1	23	75.130	9.314	1.942	18.628	86.755	71.110	79.151	57	91
	CARN	72	0108	. 4	S	COHO	o	60	42.767	4.774	0.616	9.548	22.792	41.534	43.999	37	59
	CARN	72	0108	4	S	COHO	1	20	72.900	8.553	1.912	17.105	73.147	68.903	76.897	61	90
	CARN	72	0208	6	S	COHO	1	20	72.650	9.626	2.152	19.252	92.661	68.151	77.149	61	94
	GCARN	72	0208	8	S	COHO	1	25	73.360	8.490	1.698	16.979	72.073	69.862	76.858	60	90
	G CARN	72	0108		. 5	COHO	1	90	74.022	8.908	0.939	17.815	79.348	72.154	75.891	54	94
	GCARN	72	1109	2	S	COHO	. 0	81	47.222	7.585	0.843	15.169	57.525	45.545	48.899	38	66
	G CARN	72	1109	. 2	5	COHO	1	15	78.933	8.311	2.146	16.621	69.067	74.341	83.525	68	93
				-						1.2.2.0	21.170				;		

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ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	5	SXBAR	25	5*5	C.I.MIN	C.I.MAX		MAX	
LOG	CARN	72	1209	3	S	СОНО	0	95	46.905	7.489	0.768	14.978	56.087	45.384	48.427	39	68	
LOG	CARN	72	1209	3	S	COHO	1	. 25	77.960	6.065	1.213	12.131	36.790	75.461	80.459	69	91	
LOG	G CARN	72	1209	4	S	COHO	0	72	45.236	6.626	0.781	13.252	43.901	43.682	46790	37	63	
LOG	CARN	72	1209	4	S	COHO.	5. 1	17	77.235	7.111	1.725	14.222	50.566	73.579	80.892	65	93	
	CARN	72	1209	. 6	S	COHO	0	. 66	44.848	6.573	0.809	13.146	43.207	43.238	46.459	39	64	
	CARN	. 72.	1209	. 6	S.	COHO	1 1	10	.72.800	8.039	2.542	16.078	64.622	67.055	78.545	67	94	
	GCARN	72	1309	8	S	COHO	. 0	70		5.415	0.647	10.831	29.326	43.798	46.374	38	63	
	G CARN	72	1309	8	S	COHO	1	. 25			1.277	.12.767	40.750	73.570	78.830	67	92	
-	CARN	.72	1209		. 5	COHO	5,1	87	77.460	6.867	0.736	13.734	47.158	75.995	78.925	. 67	94	
	CARN	. 72	2505		PS	RBT	1.	:24			1:288	12.619	39.810	51.959	57.291	46	73	
	CARN	72	2006		PS	RBT	1,1	6	78.000	4.980	2.033	9.960	24.800	72.775	83.225	73	.84	
	CARN	72	2006	4	PS	RBT	1	. 4	64.750		3.568	14.271	50.917	53.404	76.096	55	72	
	CARN	72	2006	4	PS	RBT	. 2.	. 3			0.577	2.000	1.000	91.517	96.483	93	95	
	CARN.	72	2006	6	PS	RBT	1.	20			0.939	8.397	17.629	60.088	64.012	54	68	
	CARN	. 72	2206	. 8	PS	RBT	. 1	9	64.778		2.763	16.576	68.694	58.396	71.160	. 56	79	
	CARN	72	2006		PS.	RBT	. 1	35		6.232	1.053	12.465	38.844	62.119	66.396	54	79	
	CARN.	72	3107	. 2	S	RBT	0	5			0.245	1.095	0.300	32.719	34.081	33	34	
	CARN	72	3107	2	S	RBT	1.	9	73.111	8.023	. 2.674	16.045	64.361	66.934	79.288	. 64	89	
	CARN	72.	3107	2	. 'S	RBT	2 .	4	97.500	3.109	. 1.555	6.218	9.667	92.556	102.444	. 95	102	
	CARN	.72	3107	2	S	RBT	3	. 1	167.000						1	*		
	CARN .	72	0108	3	· . S	RBT	0	32		1.425	0.252	2.850	2.031	32.520	33.543	31	37	
	CARN	72.	0108	3	S	RBT	1	6	81.333		3.565	17.466	76.267	72.171	90.496	66	89	
	CARN	72	0108	. 3	S	RBT	2	3		20.207	11.667	40.415	408.333	66.500	166.833	95	135	
	CARN		8010	3	S,	RBT	3.	. 1	151.000									
	CARN	72	0108	4	S	RBT	. 1	. 11	76.364	9.426	2.842	18.853	88.855	70.026	82.702	61	90	
	CARN	72	0108	4	. \$	RBT	2	- 4	120.750	12.685	6.343	25.371	160.917	100.580	140.920	105	136	
	CARN	72	0108	. 4	S.	RBT	. 3	. 1	196.000									
	CARN	72	0208	. 6	S	RBT	. 1	14			1.281	9.589	22.989	66.518	72.054	60	75	
	CARN	72	0208	6	S	RBT	. 2	. 4	109.500		10.332	41.328	427.000	76.644	142.356	95	140	
	CARN	72	0208	8	S	RBT	1	21	74.381	7.736	1.688	15.472	59.848	70.853	77.909	63	90	
	CARN	72	0208	8	S	RBT	2	1										
	CARN	72	0108	TOTL	S	RET	0	. 37	33.081	1.341	0.220	2.682	1.799	32.636	33.526	. 31	37	
	CARN	72	0108		S	RBT	1	61	74.066	8.150	1.044	16.301	66.429	71.978	76.153	60	. 90	
	CARN	72	0108		S	RBT	2	16	110.875		3.994	31.949	255.183	102.369	119.381	95	140	
	CARN	72	0108	TOTL	S.	RBT	3	. 3	171.333		13.170	45.622	520.333	114.703	227.964	151	196	
	CARN	72	1109	. 2	S	RBT	0	10		3.169	1.002	6.339	10.044	37.135	41,665	33	46	
	CARN	72	1109	2	S	RBT	.1	5	80.800	9.680	4.329	19.360	93.700	68.765	92.835	71	96	
	CARN	72		2	S	RET	2	2	133.000	21.213	15,000	42.426	450.000	-57.650	323.650	118	148	
	CARN		1109	2	S	RBT	3	1				2.2						
	CARN	72	1209	3	S	RBT	0	16	39.563	2.421	0.605	4.843	5.863	38.273	40.852	35	44	
		72	1209	3	5	RBT	1	4	85.500	4.509	2.255	9.018	20.333	78.330	92.670	82	92	
	CARN	72 72	1209	3	S	RBT	2	1	139.000					-		. 1		
		-	1209	4	S	RBT	0	5	49.600	8.562	3.829	17.123	73.300	38.956	60.244	38	60	
	CARN	72	1209	4	S	RBT	1	4	90.250	14.245	7.122	28.490	202.917	67.601	112.899	78	110	
	CARN	72	1209	4	S	RBT	2	1	139.000							-		
	CARN	72	1209	6	S	RBT	0	20	42.900	2.673	. 0.598	5.347	7.147	41.651	44.149	38	48	
	CARN	72	1209	6	S	RBT	1	9	71.111	4.137	1.379	8.273	17.111	67.926	74.296	64	79	
	CARN	72	1309	. 8	Ś	RBT	0 .	40	40.200	5.441	0.860	10.881	29.600	38.462	41.938	29	54	
	CARN	72	1209	TOTL	S .	RBT	1	21	74.905	6.920	1.510	13.841	47.890	71.749	78.061	63	90	
	CARN		1209		5	RBT	0	91	41.110	5.041	0.528	10.082	25.410	40.058	42.161	29	60	
-200	- CANTE		1,200	IDIL	. 3	RBT	1	42	76.429	7.815	1.206	15.631	61.080	74.005	78.853	63	96	

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ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
	CARN	72 72		TOTL	S	RBT	2	5	130.800	16.022	7.165	32.044	256.700	110.881	150.719	110	148	
	CARN	72	2405	2	PS	ALUT	-	49		13.326	1.904	26,651	177.570	46.990	54.643	32	83	
	CARN	72	2405	3	PS	ALUT		5		20.700	9.257	41.400	428.500	38.264	89.736	46	87	
	CARN	72	2405	4	PS	ALUT	-	17		14.528	3.524	29.056	211:059	55.589	70.529	47	91	•
LOGG	CARN	72	2505	. 6	PS	ALUT	- "	4	82.000	10.708	5.354	21.417	114.667	64.974	99.026	. 70	96	*
LOGG	CARN	72	2505	8	PS.	ALUT'	-	7	74.714	10.515	3.974	21.031	110.571	64.977	84.452	60	90	*
LOGG	CARN	72	1906	2	PS	ALUT		125	50.424	12.093	1.082	24.186	146.246	48.282	52.566	33	95	
LOGG	CARN	72	2006	3	PS	ALUT	-	7	62.000	7.659	2.895	15.319	58.667	54.907	69.093	52	. 73.	
	CARN	72	2006	. 4	PS	ALUT		15		10.096	2.607	20.191	101.924	59.355	70.512	50	86	
	CARN	72	2006	6	PS	ALUT		8		15.189	5.370	30.377	230.696	58.202	83.548	51	95	
	CARN	72	2206	. 8	PS	ALUT	-	7	77.000		1.732	9.165	21.000	72.756	81.244	71	85	
	CARN	72	3107	. 2	S	ALUT	-	48		12.340	1.781	24.681	152.283	53.232	60.393	39	86	
	CARN	72	0108	3	S	ALUT		23		14.131	2.947	28.263	199.696	66.727	78.926	48	97	
	CARN	72	0108	. 4	S	ALUT	• .*	29		12.302	2,285	24.605	151.350	74.041	83.407	47	98	
	CARN	72		6	. S	ALUT	, -	21		13.731	2.996	27.461	188.533	71.404	83.929	51	102	
	CARN	72	0208	8 2	S	ALUT	-	64 55	80.156	11.538	1.556	25.062	157.023	77.039	83.273 62.366	57	113	
	CARN	72	1209	3	S	ALUT	-	14		12.949	3.461	25.898	167.670	63.668	78.618	52	90	
	CARN	72	1209	4	5	ALUT	-	12		13.581	3.921	27.163	184.455	68.875	86.125	60	96	
	CARN	72	1209	6	Š	ALUT.	-	13		15.424	4.278	30.849	237.910	71.751	90.403	59	107	
	CARN	72	1309	8	5	ALUT	. :	21		11.393	2.486	22.785	129.790	76.709	87.101	60	106	
	CARN	72	1109	23	5	ASPR	-	9		13.923	4.641	27.847	193.861	79.168	100.610	78	116	
	CARN	72	0408		Š	CT	. 1	35		10.885	1:840	21.771	118.491	70.008	77.478	58	93	
	CARN	72	0408		s	CT	2	35	111.886	9.492	1.604	18.985	90.104	108.629	115.143	95	135	
	CARN	72		UPER	S	CT	ō	2	30.000	1.414	1.000	2.828	2.000	17.290	42.710	29	31	
	CARN	72		UPER	S	CT	1 .	33	81.848		2.296	26.382	174.008	77.187	86.510	62	101	
	CARN	72		UPER	S	CT	2 .	18	118.278	9.436		18.872	89.036	113.585	122.971	105	137	
	CARN	72	0308		S	CT	0 .	5	38.400	2.881	1.288	5.762	8.300	34.818	41.982	35	42	
LOGG	CARN	72	0308		S	CT	. 1	47	77.511		1.621	22.231	123.560	74.252	80.770	54	110	
LOGG	CARN	72	0308	2100	S	CT	2	2	131.500		14.500	41.012	420.500	-52.795	315.795	117	146	
LOGG	CARN	72	0308	1600	5	COHO	0	125	47.552	6.225	0.557	12.450	38.749	46.450	48.654	36	65	
LOGG	CARN	72	0308	1600	5	COHO	1	31	76.645	6.696	1.203	13.392	44.837	74.192	79.099	67	91	
LOGG	CARN	72	2408	1600	S	COHO	0	67	44.299	4.404	0.538	8.808	19.394	43.228	45.369	38	58	
LOGG	CARN	72	2408	1600	S	COHO	1	8	87.250	19.667	6.953	39.334	386:786	70.840	103.660	66	117	٠.
	CARN	72	1309	1600	S	COHO	0	- 68	50.838	8.831	1.071	17.662	77.988	48.707	52.969	37	73	i,
	CARN	72	1309	1600	S	COHO	1	18	80.000	7.021	1.655	14.042	49.294	76.508	83.492	69	95	
	CARN	72	0510	1600	S	COHO	.0	69	44.899	4.694	0.565	9.388	22.034	43.774	46.023	39	63	
	CARN	72	0308	1600	5	CT	0	1	36.000									
	CARN	72	0308	1600	S	CT	1	2	97.000	4.243	3.000	8.485	18.000	58.870	135.130	94	100	
	CARN	72		1600	S	CT	2	4	126.000		8.907	35.628	317.333	97.676	154.324		142	
	CARN	72	0308		5	CT	3	. 3	170.000	13.892	8.021	27.785	193.000	135.511	204.489	154	179.	
	CARN	72	1309	1600	S	CT	1	1	95.000									4
	CARN	72		1600	S	CT.	2	3	124.000		9.452	32.741	268.000	83.358	164,642			
	CARN:	72		1600	S	CT.	3	2	181.000	0.000	0.000	0.000	0.000	181.000	181.000	181	181	
	CARN	72	2308		5	COHO	. 0	77	48.688	7.160	0.816	14.321	51.270	47.064	50,312	39	68	
	CARN.	72	2308		5	COHO	1	. 2	78.500	2.121	1.500	4.243	4.500	59.435	97.565	77	80	
	CARN	72	2308		5	CT	0	3	28.333	3.215	1.856	6.429	10.333	20.353	36.314	26	32	
	CARN	72	2308 2308		. 5	CT	. 1	18	92.778		2.812	23.858	142.301	86.845	98.710	73	109	
	CARN.	72	2308		S	ALUT	. 2	3	126.667		9.135	31.644	250.333	87.387	165.946	113	144	
5000	CHRIS.		2300	ASEL	2	ALUI	_	84	63.952	17.907	1.954	35.815	320.672	60.064	67.841	38	102	

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	ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	\$	SXBAR	25	5*5	C.I.MIN	C. I. MAX	MIN	MAX	
	LOG	CARN	72	2208	FRED	s	соно	0	151	53.616	9.420	0.767	18.841	88.745	52.098	55.134	39.	76	
	LOGO	CARN	72	2208	FRED	S	COHO	1	. 10	81.800	6.374	2.015	12.747	40.622	77.245	86.355		94	
	LOGO	CARN	72	2208	FRED	. 5	RBT	0	9	42.333	3.674	1.225	7.348		39.504	45.162		48	
	LOGO	CARN.	72	2208	FRED	S	RBT	1	3		8.145	4.702	16.289	66.333	76.447	116.886	91	106	
	LOGO	CARN	72	2208	FRED	S	ALUT	-	21	32.667	5.003	1.092	10.007	25.033	30.385	34.949	-	47	
	LOGO	CARN	72		FRED	. 5	ASPR	-	104		22.769	2.233	45.537	518.415	71.781	80.623	46	145	
	LOGG	CARN	72		PACH	S	COHO	0	130			0.654	14.920	55.649	50.574	53.165	38	73	
	LOGO	CARN	72		PACH	S	COHO	. 1	19	90.421		2.887	25.169	158.368	84.358	96.484	- 77	120	
		CARN	72		PACH	s	RBT	0	28	44.429	5.153	0.974	10.305	26.550	42.432	46.425	35	58	
		CARN	72		PACH	s	RBT	1	25	82.560	8.063	1.613	16.125	65.007	79.238	85.882	71	98	
		CARN	72		PACH	S	RBT	2	7	134.714		7.580	40.112	402.238	116.142	153.286		167	
		CARN	72		PACH	5	ASPR	-	47	87.362		3.269	44.827	502.366	80.790	93.933	61	140	
,		CARN	72		RITH	s	CT	0	60	48.483	5.999	0.774	11.997	35.983	46.935	50.032	38	62	
		CARN .	72		RITH	s	CT	1	108	84.537	7.064	0.680	14.127	49.896	83.191	85.883	65	99	
	-	CARN	72		RITH	. 5	CT	2	17			2.706	22.317	124.507	111.851	123,326			
	-	CARN	72		RITH	S	CT	3	3			4.509	15.620					137	
				0400	*			3		100.000	7.010	4.509	15.620	61.000	146.610	185.390	161	175	
	LOGG	CARN	73	1003	FENC	TR	COHO	1	4	67.000	3.651	1.826	7.303	13.333	61.194	72.806	63	. 71	
	LOGG	CARN	73	1003	FENC	TR	COHO	2	2	75.000	0.000	0.000	0.000	.0.000	75.000	75.000	75	75	
	LOGG	CARN	73	2503	FENC	TR	COHO	1	3	63.667	4.041	2.333	8.083	16.333	53.633	73.700	60	68	
	LOGG	CARN	73	2503	FENC	TR	COHO	. 2	3	95.667	21.779	12.574	43.558	474.333	41.597	149.736	78	120	
	LOGG	CARN	73	0404	FENC.	TR	COHO	1	29	67.621	4.555	0.846	9.109	20.744	65.887	69.354	62	77	
	LOGG	CARN	73	0404	FENC	TR	COHO	2	19	86.632		3.254	28.364	201.135	79.799	93.464	72	132	
	LOGG	CARN	73	1104	FENC	TR	СОНО	1	. 9	69.111	5.988	1.996	11.977	35.861	64.500	73.722	60	76	
	LOGG	CARN	73	1104	FENC	TR	COHO	2	1		0.000			. 55,501	. 04.500	13.122	. 00	10	
	LOGG	CARN	73	1804	FENC	TR	COHO	1	80	69.287	5.332	0.596	10.665	28.435	68,101	70.474	. 60	79	
	LOGG	CARN	73	1804	FENC	TR	COHO	2	82	89.110		1.145	20.735	107.482	86.831	91.388	75	125	
	LOGG	CARN	73	2504	FENC	TR	COHO		. 69	70.478	5.679	0.684	11.358	32.253	69.118	71.839	60	80	
	LOGG	CARN	73	2504		TR	COHO	. 2	86	94.058		1.290	23.918	143.020	91.492	96.624	. 75	126	
	LOGG	CARN	73	0205		TR	COHO	1	38	74.895	6.425	1.042	12.851	41.286	72.789	77.000	60	85	
•	LOGG	CARN	73	0205		TR	COHO	. 2	38	98.474	8.203	1.331	16.405	67.283	95.786	101.162	85	113	
	LOGG	CARN	73	0905		TR	COHO	. 1	228	80.675	8.225	0.545	16.450	67.647	79.597			97	
	LOGG	CARN	73	0905		TR	COHO	2	166	100.283	7.831		15.661	61.319	99.080	101.487	60	125	
	LOGG	CARN -	73	1605		TR	COHO	1	111	83.189	7.472	0.709	14.944	55.828	81.785	84.593	62	97	
	LOGG	CARN	73	1605		TR.	COHO	2	156	100.744	7.471	0.598	14.942	55.818	99.559	101.928	87	134	
	LOGG	CARN	73	2305		TR	СОНО	1	143	81.993	8.240	0.689	16.480	67.894	80.629	83.357	60	97	
	LOGG	CARN	73	2305	FENC	TR	COHO	2	100	99.940	7.693	0.769	15.387	59.188	98.417	101.463	86	127	
	LOGG	CARN	73	3005		TR	COHO	1	. 22	80.864	9.311	1.985	18.622	86.695	76.735		60		
	LOGG	CARN	73	3005		TR	СОНО	2	8	90.750	3.012	1.065	6.024	9.071		84.993	-	. 90	
	LOGG	CARN	73	0606		TR	COHO	1	45	73.556	9. 194	1.371	18.388		88.237	93.263	. 87	94	4
		CARN	73	0606		TR	COHO	. 2	8	92.875	4.454	1.575		84.525	70.801	76.310	60	88	
		CARN	73	1306		TR	COHO	1	24	70.583	7.734		8.908	19.839	89.159	96.591	87	98	
		CARN	73	1705	2	PS	COHO	ò	67	39.507		1.579	15.469	59.819	67.315	73.851	60	. 88	
		CARN	73	1705	. 2	PS	COHO	. 1	28	61.750	2.156	0.263	4.312	4.648	38.983	40.032	34	46	
		CARN	73	1705	3	PS	COHO	0	102	38.333	7.255	1.371	14.511	52.639	58.939	64.561	51	78	
		CARN	73	1705	3	PS	COHO	1	12	57.583	1.962	0.194	3.923	3.848	37.949	38.718	34	46	
		CARN	73	1705	4	PS	COHO	ò	59		3.919	- 1.131	7.837	15.356	55.095	60.072	50	64	
		CARN	73	1705	4	PS	COHO	1	41	39.729	1.779	0.232	3.559	3.167	39.265	40.192	35	43	
		CARN	73	1705	6	PS	COHO			58.854	6.998	. 1.093	13.997	48.978	56.646	61.061	. 50	80	
		CARN	73	1705	- 6	PS	COHO	0	62	40.565	1.878	0.239	3.757	3.529	40.090	41,039	38	47	
		CARN	73	1705	8	PS	COHO	ò	15	59,733	6.100	1.575	12.200	37:210	56.363	63.104	50	:74	
		7.5					COILO	.0	.00	41.182	1.889	0.232	3.777	3.566	40.719	41.644	37	.47	
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ID	STREAM	YEAR	DATE	LDC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	. \$*\$	C.I.MIN	C.I.MAX	MIN	MAX	
DOG	CARN	73	1705	8	PS	соно	1	5	59.400	5.857	2.619	11.713	34.300	52.119	66.681	51	65	
	CARN	73		TOTL	PS	COHO	0	356	39.702	2.195	0.116	4.390	4.818	39.472	39.933	. 34	47	
	CARN	73	1705	TOTL	PS	COHO	1	101	59.663	6.640	0.661	13.279	44.086	58.355	60.972	. 50	80	
DGG	CARN	73	2506	2	S	COHO	0	117	42.009	2.821	0.261	5.642	7.957	41.492	42.525	. 35	50	
DOG	CARN	73	2506	2	S	COHO	1	20	69.650	8.324	1.861.	16.648	69.292	65:760	73.540	54	84	, .
OGG	CARN	73	2806	3	S	COHO	.0	56	43.750	3.523	0.471	7.045	12.409	42.8Q9	44.691	37	.52	
LOGG	CARN	73	2806	3	5	COHO.	1	43	64.791	6.174	0.942	12.349	38.122	62.898	66.683	- 55	80	
	CARN	73	2706	4	S	COHO	0	81	43.037	3.679	0.409	7.358	13.536	42.224	43.851	34	51:	
LOGG	CARN	73	2706	4	5	COHO	. 1	45	67.289	7.04.1	1.050	14.082	49.574	65.179	69.399	55	82	
OGG	CARN	73	2606	8	S	COHO	0	106	42.915	3.287	0.319	6.573	10.802	42.283	43.547	36	54	
OGG	CARN	73	2606	8	S	COHO	1	11	63.818	6.824	2.057	13.648	46.564	59.230	68.406	55	79	
LOGG	CARN	73	2606	6	S	COHO	0 .	60	45.150	3.145	0.406	6.290	9.692	44.338	45.962	40	53	
OGG	CARN	73	2606	6	5	COHO	1	20	63.400	3.152	0.705	6.305	9.937	61.927	64.873	58	69	
LOGG	CARN	73	2606	TOTL	5	COHO	0	421	43,143	3.431	0.167	6.862	11.770	42.811	43.474	34	54	
.OGG	CARN	73	2606	TOTL	S	COHO	1 .	138	66.109	6.727	0.573	13.454	45.251	64.975	67.243	. 55	84	
OGG	CARN	73	0708	2	S	COHO	0	133	45.910	3.963	0.344	7.926	15.704	45.229	46.590	. 34	57	
LOGG	CARN	73	0708	2	. 5	COHO	1	19	70.947	6.778	1.555	13.556	45.942	67.682	74.213	60	84 .	
.OGG	CARN	73	8080	3	S	COHO	0 .	144	47.722	4.253	0.354	8.506	18.090	47.020	48.424	38	56	*
.OGG	CARN	73	8080	3	S	COHO	.1	26	70.692	8.128	1.594	16.256	66.062	67.409	73.976	59	88	
OGG	CARN	73	0908	4	5	COHO	0	207	46.812	4.133	0.287	8.267	17.086	46.243	47.380	39	57	
.DQG	CARN	73	0908	4	S	COHO	1.	36	68.083	8.279	1.380	16.557	68.536	66.282	71.884	.58	86	
DGG	CARN	73	0908	6	. 5	COHO	0	185	48.757	3.887	0.286	7.774	15.109	48.191	49.323	40	57	
LOGG	CARN	73	0908	. 6	S	COHO	1	23	66.957	6.241	1.301	12.482	38.953	64.263	69.650	-58	79	
LOGG	CARN	73	0908	8	S	COHO	0	96	47.302	4.953	0.505	9.905	24.529	46.301	48.303	36	57	
LOGG	CARN	73	0908	8	S	COHO	1	16	65.563	7.275	1.819	14.550	52.929	61,688	69.437	59	. 82.	
OGG	CARN	73	8080	TOTL	S	COHO	0	.763	47.362	4.288	0.155	8.575	18,383	47.054	47.669	34	57	
OGG	CARN	73	8080	TOTL	S	COHO	1	120	68.850	7.646	0.698	15.292	58.465	67.468	70.232	58	88	
OGG	CARN	73	1009	2	5	COHO	0	138	49.717	5.903	0.503	11.806	34.847	48.722	50.712	38	65	
.OGG	CARN	73	1009	2	S	COHO	1	30	76.167	6.309	1.152	12.617	39.799	73.817	78.516	66	89	
OGG	CARN	73	1309	. 3	5	COHO	0	69	52.942	5.052	0.608	10.105	25.526	51.732	54.152	42	65	
OGG	CARN	73	1309	3	5	COHO	1	22	78.727	6.916	1.474	13.831	47.827	75.660	81.794	68	89	
.OGG	CARN	73	1209	4	. 5	COHO	0	148	49.899	5.798	0.477	11.596	33.616	48.955	50.842	38	65	
DGG.	CARN	73	1209	. 4	S	COHO	1	26	74.923	5.734	1.124	11.467	32.874	72.607	77.239	66	88	
	CARN	73	1109	6	S	COHO	0	130	51.215	4.854	0.426	9.709	23.566	50.372	52.058	42	64	
	CARN	73	1109	. 6	S	COHO	. 1	.19	72.053	4.684	1.075	9.368	21.942	69.796	74.309	66	85 .	
	CARN	73	1109	8	S	COHO	0	117	50.974	6.072	0.561	12.144	36.870	49.863	52.086	39	65	
	CARN	73	1109	8	S	COHO	. 1	6	75.000	6.986	2.852	13.971	48.800	67.671	82.329	. 68	88	
	CARN	73	1109	5	S	COHO	0	61	49.164	6.432	0.824	12.864	41.373	47.517	50.811	40	65	
	CARN	73	1109	. 5	S	COHO	1	. 8	77.875	6.468	2.287	12.937	41.839	72.478	83.272	67	87	٠.
	CARN	73	1109	TOTL	S	COHO	0	663	50.558	5.765	0.224	11.529	33.232	50.115	51.001	38	65	
	CARN	73	1109	TOTL	S	COHO	1	108	75.731	6.429	0.619	12.859	41.338	74.506	76.956	66	89	*
	CARN	73		TOTL	PS	RBT	1	14	60.143	3.759	1.005	7.518	14.132	57,973	62.313		65	
	CARN	73	1705		PS	RBT	2	3	84.667	3.512	2.028	7.024	12.333	75.948	93.385	81	88	•
	CARN	73	2506	2	S	RBT	0	3	32.000		1.000	3.464	3.000	27.700	36.300		34	
	CARN	73	.2506	2	S	RBT	. 1	3	72.000	11.790	6.807	23.580	139.000	42.731	101.269	62	85	
	CARN	73	2506	2		RBT	2	1	124.000							:		
	CARN	73	2806	3	. 5	RBT	. 0	5	32.400	1.140	0.510	2.280	1.300	30.982	33.818		34	
	CARN	73	2806	3		RBT	1	4	78.750	8.261	4.131	16.523	68.250	65.614	91.886		85	
	CARN	73	2706	4	5	RBT	0	1.1	33.000	0.775	0.234	1.549	0.600	32.479	33.521	32	34	
	CARN	. 73	2706	. 4	. S	RBT	. 1	. 2	76.500	21.920	15.500	43.841	. 480 . 500	-120.505	273.505	61	92	
-OGG	CARN	73	2606	. 6	S	RBT	0	40	32.150	0.921	0.146	1.843	0.849	31.856	32.444	30	- 34	

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	ID	STREAM	YEAR	DATE	FOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
	LOGG	CARN	73	2606	6	5	RBT.	1.	8	73.750	8.345	2.950	16.690	69.643	66.787	80.713	. 68	. 92	
	LOGG	CARN	73	2606	8	S	RBT	. 0.	7	31.143	2.340	0.884	4.680	5.476	28.976	33.310	26	33	
	LOGG	CARN	73	2606	. 8	S	RBT	*1	. 14	69.857	9.742	2.604	19.483	94.901	64.233	75.481	58	91	
•	LOGG	CARN	73	2506	TOTL	S	RBT	0	. 51	32.216	1.301	0.182	2.602	1.693	31.850	32.582	. 26	: 34	
	LOGG	CARN	73	.2506	TOTL	S	RBT	1	31	72.645	9.972	1.791	19.944	99.437	68.992	76.299	. 58	92	
*	LOGG	CARN	73	0708	2	S	RBT	0	21	38.333	5.544	1.210	11.088	30.733	35.805	40.862	29	. 48	
	LOGG	CARN	73	0708	. 2	5	RBT	1	. 8	B1.250	13.003	4.597	. 26,005	169.071	70.401	92.099	66	101	
	LOGG	CARN	. 73	0708	. 2	. 5	RBT	2	3	118.667	21.127	12, 197	42.253	446.333	66.218	171.116	105	143	
	LOGG	CARN	73	0808	3	S	RBT	0	18		11,660	2.748	23.319	135:948	. 34.979	46.576	. 20	54	
	LOGG	CARN	73	0808	. 3	S	RBT	1	7	83.571	17.106	6.466	34.212	292.619	67,731	99.412	58	103	
	LOGG	CARN	73	0808	. 3	S	RBT	2	. 3	134.667	30.534	17.629	61.068	. 932.333	58.862	210.471	105	.166	
	LOGG	CARN	73	0908	4	S	RBT	0	58		6.080	0.798	12.159	36.963	41.265	44.459	29	70.	
	LOGG	CARN	73	0908	4	5	RBT	1	2	105.000	1.414	1.000	. 2.828	2.000	92.290	117.710	104	106	
	LOGG	CARN	73	0908	. 6	S	RBT	. 0	193	39.544	4.505	. 0.324	. 9.009	20.291	38.902	40.186	30	. 52	
		CARN	73	0908	6	5	RBT	1	6	74.000	4.472		. 8.944	20.000	69.308	.78.692	67	80	
		CARN	73	0908	8	Š	RBT	0	-64	36.016	3.249	0.406	6.498	. 10.555	35.207	36.824	31	43	
		CARN	73	0908	8	5	RBT	. 1	11	75.455	7.581	2.286	15.162	57.473	70.357	80.552	60	. 85	
		CARN .	73	0808	TOTL	S	RBT	0	353	39.431		0.274	10.304	26.541	38,888	39.974	29	. 54	
		CARN	73	0808		Š	RBT	. 1	34		12.054	2.067	24.108	145.295	74.715	83.108	58	104	
	-	CARN	73	0808	21	Š	RBT	2	. 7	125.143		8.754	46.324	536,476	103.695	146.591	105	166	
		CARN	73	1009	2		RBT	ō	10	48.700	4.029	1.274	8.058	16.233	46.821	52.579	41	55	
		CARN	73	1009	2	Š	RBT .	1	. 4	85.750	3.862	1.931	7.724	14.917	79.609	91.891	82	91	
		CARN	73	1009	2	Š	RBT	2	6	109.167	5.269	2.151	10.539	27.767	103.638	114.695	105	118	
		CARN	73	1309	3	S	RBT	0	14	59.357	3.478	0.929	6.955	12.093	57.350	61.365	53	65	
		CARN	73	1309	. 3	S	RBT	ĭ	. 5	93.600	5.595	2.502	11.189	31,300	86.644	100.556	85	100	
		CARN	73	1309	. 3		RBT	2	. 3			8.667	30.022	225.333	89.067	163.600	109	135	
		CARN	73	1309	3		RBT	3	2	168,000	0.000	0.000	0.000	0.000	168.000	168.000		168	
	-	CARN	73	1209	4	5	RBT	o	44	49.227		0.548	7.267	13.203	48.126	50.328	. 42	. 57	
		CARN	73	1209	4	S	RBT	1	1	72.000	4:004	. 0.040			40.120				*
		CARN	73	1109	5	Š	RBT	o	53	45.811	4.740	0.651	9.479	22.464	44.509	47.113	37	57	
		CARN	73	1109	. 6	Š	RBT	ŏ	. 68	44.647	5.183	0.628	10.365	26.859	43.396	45.898	36	68	
	-	CARN	73	1109	6	S	RBT	1	2	83.500	3.536	2.500	7.071	12.500	51.725	115.275	81	86	
		CARN	73	1109	6	. \$	RBT	2	1	120.000	3.550	2.500		12.000				-	
		CARN.	73	1109	_		RBT	ō	188	42:112	4.165	0.304	8.331	.17.351	.41.510	42.713	34	54	
		CARN	73	1109	. 8	S	RBT	. 1	3		10.263	5.925	20.526	105.333	54, 187	105.146	71	91	•
		CARN	73	1109		Š	RBT	. 2	1	100.000	10.200	5.020	20.020	100.000		. 100.140		٠.	
		CARN	73	1209	TOTL	Š	RBT	ō	376	44.699	5.663	0.292	11.326	32.067	44.121	45.278	34	65	
		CARN	73	1209		S	RBT	. 1	15	83.800	8.728	2.253	17.455	76.171	78.978	88.622	68	96	
		CARN	73	1209		S	RBT	2	11	111.727		3:185		111.618	104.624	118.831	100	135	
		CARN.	73	1209		S	RBT	3	1	168.000	10.565	37100	21.130	,111,010	104.024	110.031	100	133	
		CARN	73	1705	2	PS	ALUT	3	114		11.149	1.044		124.303	49.854	53.989	37	103	
	-	CARN	73	1705	-	PS		-	20				22.298			72.688	48	87	
2		CARN	73	2506	2	5	ALUT	-		-,	11.208	2.506	22.417	125.629	62.212		38	94	
		CARN	73		_	-	ALUT	-	185		11.676	0.858	23.352	136.330	55.338	58.738	49	-	
		CARN		2806	3	- 5	ALUT	-	56	80.946		2.204	32.990	272.088	76,538	85.355		119	
			73	2706	4	S	ALUT		20	80.900		2.453	21.937	120.305	75.774	86.026	55	. 99	
		CARN	73	2606	6	S	ALUT	-	37	81.459		2.331	28.361	201.089	76.750	86.169	57	105	
		CARN	73 73	2606	8.		ALUT	-	68	-,	11.740	1.424	23.481	137.839	72.902	78.569	55	102	
		CARN	73	0808	3	5	ALUT		219		11.102	0.750	22.205	123.263	56.889	59.860	40	89	
		CARN	73	0908	4	5	ALUT	-	28	86.357		4.420	46.778	547.053	77.296	95.418	50	148	
		CARN .	73	0908	. 6	_		-	11	79.545		5.549	36.806	338.673	67.172	91.919	55	110	
	ruga	CARN	./3	0908	6	: 5	ALUT	-	. 24	82.583	14.123	2.883	28.247	199.471	76.616	88.551	60,	113	
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ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	5	SXBAR	25	5*5	C.I.MIN	C.I.MAX	0.00.00		
LOGG	CARN	73	0909	8	S	ALUT	-	23	79.478	10.470	2.183	20.940	109.625	74.959	83.997	61	. 97	
LOGG	CARN	73	1009	2	S	ALUT	-	183	61.678	11.214	0:829	22.427	125,747	60.036	63.319	: 41	1.10	*
LOGG	CARN	73	1309	. 3	5	ALUT		21	79.190	13.869	3.027	27.739	192.362	72.865	85.516	53	101	
LOGG	CARN	73	1209	. 4	S	ALUT	-	17	83.824	12.064	2:926	. 24.127	145.529	77.621	90.026	66	103	
LOGG	CARN	73	1109	5	5	ALUT	-	24	83.125	9.488	1.937	18.977	90.027	79.116	87.134	62	98	4
	CARN	73	1109	_	_	ALUT	-	15	82.933	12.697	3.278	25.394	161.210	75.918	89.949	60	103	
	CARN	. 73	1109	8	S	ALUT	-	19	83.895		1.295	11.292	31.877	81.175	86,615		93	
	CARN	73	2506			ASPR	-	13	F	21.026	5.832	42.052	442.090	63.903	89.328		120	
	CARN	73	0708			ASPR	-	16		16.815	4.204	33.629	282.733	72.796	. 90.704		104	,
	CARN	73	1009	2	5	ASPR	-	9		17.268	5.756	34.537	298.194	74.481	101.074		124	٠.
	CARN	73	1309	3	S	ASPR		8	103.875		6.661	37.682	354.982	88.154	119.596		147	
	CARN	73	2806		S	CT	. 1	3	65.667		4.702	16.289	66.333	45.447	85.886		75	
	CARN .	73	2806		S	CT	. 2	31			2.174	24.213	146.566	100.532	109.403		124	
	CARN	73		UPER	S	CŢ	3	. 8	144.500		. 5.144	29.101	211.714	132.359	156.641		167	
	CARN	73		UPER	S	CT	0	37	31.784	4.436	0.729	. 8.871	19.674	30.311	33.257		40	.*
	CARN	73		UPER	S	CT	1	15	91.133	7.549	1.949	15.097	56.981	86.962	95,304		99	
	CARN	73		UPER	S	CT.	2	20		9.355	2.092	18.711	87.524	110.178	118.922		127	
	CARN	73		UPER	S	CT	3	7	143.429		4.582	24.245	146.952	132.203	154.654		168	
	CARN	73		2100	S	CT	0	12	23.917	0.289	0.083	0.577	0.083	23.733	24,100		24	
	CARN	73 .		2.100	S	CT	1	. 5	73.200	6.017	2.691	12.033	36,200	65.720	80.680		79	
	CARN	73		2100	S	CT	. 2	11	94.545	8.359	2.520	16.718	69.873	88.925	100.166	86	114	
	CARN	73		2100	S	CT	3	_1	158.000									
	CARN	73		2100	. 2	CT	0	20	43.000	3.449	0.771	6.898	11.895	41.388	44.612		48	
	CARN	73		2100	S	CT	1	17	83.294	6.835	1.658	13.670	46.721	79.780	86.809	74	95	
	CARN	73		2100	S	CT	2	14		10.798	2.886	21.596	116.593	102.624	115.091	98	133	
	CARN	73		2100	S	CT	3	1	159.000					·				
	CARN.	73		1600	S	COHO	0	64	47.594		0.759	12.151		46.082	49,105		63	
	CARN	73	1109		. 5	COHO	1	35	75.857	6.381.	1.079	12.762	40.714	73.668	78.047	65	88	*
	CARN	73 .	1109		. 5	CT	1	1	120.000									
-	CARN	73	1109		S	CT	2	4	153.500		5.485	21.939	120.333	136.058	170.942		163	*
	. CARN	. 73 .		1600	S	CT.	3	2	191.500	2.121	1.500	4.243	4.500	172.435	210.565	3	193	
	CARN	73		USEL	S	COHO	0	. 4	66.250	1.500	0.750	3.000	2.250	63.865	68.635	64	67	٠.
	CARN	73		USEL	S	COHO	1	3	79.667	3.786	2.186	7.572	14.333	70.268	89:066		84	
	CARN	73	3008		5	CT	0	26	49.269	3.412	0.669	6.825	11.645	47.891	50.648	41	53	
	CARN	73	3008		S	CT	1	12	99.500		3.487	24.159	145.909	91.829	107.171	83	122	- 4
	CARN	73	3008		S	CT	2	3	163.333		10.588	36.679	336.333	117.804	208.863		184	
	CARN	73	3008		5	ALUT	-	40	75.250		2.279	28.829	207.782	70.646	79.854	.45	103	
	CARN	73		FRED	S	COHO	0	26	55.577	7.117	1.396	14.234	50.654	52.702	58.452	43	67	
	CARN	73		FRED	S	COHO	1	9	74.556	4.475	1.492	8.950	20.028	71.110	78.001	69	84	
	CARN	73	3108		S	RBT	0	. 2	49.500	2.121	1.500	4.243	4.500	30.435	68.565	48	51	
	CARN	73	3108		S	RBT	1	1	119.000		•			*				
	CARN	73	3108		S	ALUT		. 34	33.853	6.378	. 1.094	12.755	40.675	31.633	36.073	27	.51	1
	CARN	73	3108		. 5	ASPR	-	48		17.169	2.478	34.338	294.780	66.352	76.314	54	123	
	CARN	73	2908		S	COHO	. 0	78	50.577	6.381	0.722	12.762	40.715	49.139	52.015		65	
	CARN.	73	2908		5	COHO	1	. 17	79.882	B. 200	1.989	16.399	67.235	.75.666	84.Q98	68	94	
	CARN	. 73	2908		S	RBT	0	. 63	47.921	4.949	0.624	9.898	24.494	46.680	49.161	39	60	
	CARN	73	2908		. 5	RBT	1	4	103.500		10.444	41.777	436.333	70.287	136.713		128	
	CARN	.73		PACH	S.	ALUT		33	64.515		1.911	21.955	120.508	60.636	68.394	. 50	87	
	CARN	73 73	2908		S	ASPR	-	44	83.182		2.220	29.458	216.843	78.719	87.645	63	126	
	CARN	73	3008		S	CT	0	154	56.981		.0.428	10.616	28.176	56.134	57.827	43	73	
	CARN		3008		S	CT	.1	33	101.788		2.454	28.190	198.672	96.807	106.769	82	137	* *
2000	CARN	73 .	3008	KITH	, 5	CT	2	. 2	153.500	0.707	0.500	1.414	0.500	147.145	159.855	153	154	٠.

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	ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	\$	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
	LOGG	CARN	74	2003	FENC	TR	соно	1	14	63.786	2.392	0.639	4.783	5.720	62.405	65.166	60	67	
	LOGG	CARN	74	2003	FENC	TR	COHO	2	24	76 . 125	7.854	1.603	15.707	61.679	72.807	79.443	69	. 98	
	LOGG	CARN	74	2903	FENC	TR	COHO	1	15	64.933	3.127	0.808	6.255	9.781	63.205	.66.661	60	70	9
	LOGG	CARN	74	2903	FENC	TR	COHO.	2	. 3	.79.667	8.021	4.631	16.042	64:333	59.754	99.579	72	. 88	
	LOGG	CARN	74	0304	FENC	· TR	COHO	1	18	65.833	4.176	.0.984	8.353	17.441	63.756	67:910	. 60	73	
	LOGG	CARN	74	0304	FENC	TR	COHO	2	. 6	82.500	8.456	3.452	. 16.912	71.500	73.628	91.372	74	. 95	
	LOGG	CARN	74	0904	FENC	TR	COHO	1	44	67.455	4.995	0.753	9.990	24.951	65.941	68.968	60	80	
	LOGG	CARN	74	0904	FENC	TR	COHO	2	9	81.667	4.975	1.658	9.950	24.750	77.836	85.497	75	90	
	LOGG	CARN	74	1704	FENC	TR	COHO	. 1	81	68.358	6.024	0.669	12.047	36.283	67.026	69.690	60	81	
	LOGG	CARN	74 .	1704	FENC	TR	COHO	2	19	85.000	9.068	2.080	18.135	82.222	80.631	89.369	71	106	
	LOGG	CARN	74	2404	FENC	TR	COHO	-1"	89	70.191	6.294	0.667	12.587	39.611	68.863	71.519	60	83	
	LOGG	CARN	74	2404	FENC	TR	COHO	2	126	100.897	13.589	1.211	27.177	184.653	98.500	103.294	71	136	
	LOGG	CARN	. 74	0105	FENC	TR	COHO	1	. 32	73.563	. 8.531	1.508	17.061	72.770	70.501	76.624	61	. 89	
	LOGG	CARN	7.4	0105	FENC	TR	COHO	2	93	.104 . 140	11.369	1,179	22.738	129.252	101.806	106.474	. 82	131	
	LOGG	CARN	74 .	0805	FENC	TR	COHO	1	169	76.278	9.465	0.728	18.930	89.583	74.837	77.720	60	.93	
	LOGG	CARN:	74	0805	FENC	TR	COHO	2	467	99.889	10.695	0.495	21.391	114.391	98.909	100.869	73	133	
	LOGG	CARN	7.4.	1505	FENC	TR	COHO	1	135	80, 193	6.479	0.558	12.958	41.978	79.088	81,297	61	89	
	LOGG	CARN	74	1505	F.ENC	TR	COHO	2	260	100.858	10.201	0.633	20.402	104.061	99.605	102.110	76	135	
	LOGG	CARN	74	2205	FENC	TR	COHO	1	195	78.718	7.345	0.526	14.691	53.956	77.676	79.759	60	89	
	LOGG	CARN	74	2205	FENC	TR	COHO	. 2	319	99.677	9.262	0.519	18.524	85.785	98.650	. 100.704	76	129	
	LOGG	CARN	74	2905	FENC	TR	COHO	1	66	71.803	9:536	1.174	19.071	90.930	69.467	74.139	60	93	
	LOGG	CARN	74	2905	FENC	TR	COHO	. 2	43	91.860	8.844	1.349	17.688	78.218	89.150	94.571	78	120	
	LOGG	CARN	74	0506	FENC	· TR	COHO .	. 1	24	67.750	6.967	1.422	13.935	48.543	64.806	70.694	60	80	
	LOGG	CARN	. 74	0506	FENC	TR	COHO	2	6	88.500	4.416	1.803	8.832	19.500	83.867	93,133	80	92	
	LOGG	CARN	74	1206	FENC	TR	COHO	1	23	68.739	6.333	1.321	12.667	40.111	66.006	71.473	- 60	80	
	LOGG	CARN	74	1206	FENC	TR	COHO	. 2	3	92.333	18.009	10.398	36.019	324.333	47.623	137.043	.80	113	
	LOGG	CARN	74	1906	FENC	TR	COHO	1	9	66.333	4.123	1.374	8.246	17.000	63.159	69.508	60	73	
	LOGG	CARN	74	2105	2	PS	COHO	0	64	40.500	2.649	0.331	5.297	7.016	39.841	41.159	35	49	
	LOGG	CARN	74	2105	2	PS	COHO	1	51	67.039	12.517	1.753	25.034	156.678	63.516	70.562	53	110	
	LOGG	CARN	74	2205	3	PS	COHO	0	105	39.771	2.338	0.228	4.676	5.466	39.320	40.223	34	47	
	LOGG	CARN	74	2205	3	PS	COHO	1	5	65.000	7.176	3.209	14.353	51.500	56.078	73.922	55	71	
	LOGG	CARN	74	2205	. 4	PS	COHO	0	178	39.022	2.634	0.197	5.268	6.937	38.632	39.413	35	47	
	LOGG	CARN	74	2205	4	PS	COHO	1	36	62.139	7.064	1.177	14.127	49.894	59.749	64.529	51	80	
	LOGG	CARN	74	0106	5	PS	COHO	0	109	40.844	2.314	0.222	4.628	5.355	40.405	41.283	35	47	
	LOGG	CARN	74	0106	5	PS	COHO	1	9	62:111	8.433	2.811	16.865	71.111	55.618	68.604	50	. 77	
	LOGG	CARN	74	2905	6	PS	COHO	. 0	140	40.386	1.906	0.161	3.813	3.634	40.067	40.705	37	49	
	LOGG	CARN	74	2905	6	PS	COHO	1	6	62.333	7.230	2.951	14.459	52.267	54.748	69.919	52	70	
	LOGG	CARN	. 74	2905	8	PS	COHO	0	72	41.569	2.631	0.310	5.263	6.925	40.952	.42:187	35	47	
	LOGG	CARN	74	2905	. 8	PS	COHO	1	6	55.167	5.636	2.301	11.272	31.767	49.253	61.080	50	65	
	LOGG	CARN	74	2505	TOTL	PS	COHO	0	668	40, 139	2.530	0.098	5.059	6.399	39.945	40.333	34	49	
	LOGG	CARN	74	2505	TOTL	PS	COHO	. 1	111	64.045	10.313	0.979	20.625	106.352	62.107	65,983	50	110	
	LOGG	CARN	74	1906	2	PS	COHO	0	71	45.690	5.261	0.624	10.521	27.674	44.448	46.933	37	59	
	LOGG	CARN	74	1906	2	PS	COHO	1	64	69.797	6.183	0.773	12.366	38.228	68.259	71.335	60	87.	
	LOGG	CARN	74	2507	2	SPS	COHO	0	68	47.750	5.293	0.642	10.585	28.011	46.473	49.027	40	63	
	LOGG	CARN	74	2507	2	SPS	COHO	1	43	74.256	5.328	0.812	10.656	28.385	72.623	75.889	65	87	
	LOGG	CARN	74 -	2507	3	SPS	COHO	0	50	45.940	3.878	0.548	7.756	15.037	44.838	47.042	40	58	
	LOGG	CARN	74	2507	3	SPS	COHD	. 1	17	72.765	6.260	1.518	12.521	39.191	69.546	75.984	64	85	
	LOGG	CARN	74	2407	4	SPS	COHO	0	152	45.105	5.162	0.419	10.325	26.651	44.276	45,934	36	63	
	LOGG	CARN	74	2407	4	SPS	COHO	1	19	72.316	5.628	1.291	11.256	31.673	69.604	75.027	65	83	
		CARN	74	2407	5	SPS	COHO	Ó	130	43.838	3.617	0.317	7.234	13.082	43.210	44.467	38	60	
	LOGG	CARN	74	2407	- 5			. 1	14	76.429	8.821	2.357	17.641	77.802	71.337	81.521	. 65	101	
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ID STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
LOGG CARN	74	2307	6	SPS	COHO	0	75	46.293	4.655	0.538	9.310	21.670	45.224	47.363	39	62	*
LOGG CARN	74	2307	. 6	SPS	COHO	1	13	76.000	5.462	1.515	10.924	29.833	72.698	79.302	- 65	84	
LOGG CARN	74	2307	8	SPS	COHD	o	69	47.464	5.112	0.615	10.224	26.135	46.239	48.688	39	69	
LOGG CARN	74	2307	- 8	SPS	COHO	1	6	73.833	3.869	1.579	7.737	14.967	69.774	77.892	70	80	
LOGG CARN	74	2407	_	SPS	COHO	0	543	45.630	4.743 .	0.204	9.487	22.499	45.227	46.033	36	63	
LOGG CARN	.74	2407	-	SPS	COHO	1	113	74.106	6.032	0.567	12.063	36.381	72.983	75.230	-	101	
LOGG CARN	74	1608	2	PS	COHO	o	117	50.838	5.906	0.546	11.812	34.879	49.757	51.919	38	67	
LOGG CARN	74	1608	2	PS	COHO	1	28	77.536	4.534	0.857	9.067	20.554	75.779	79.292		90	
LOGG CARN	74	1609	2		COHO	0	87	52.034	6.074	0.651	12.148	36.894	50.739	53.330	42	68	
LOGG CARN	74	1609	2		COHO	1	33	77.697	5.554	0.967	11.107	30.843	75.734	79.659	69	93	
LOGG CARN	74	1709	3	SPS	COHO	ò	78	48.423	5.368	0.608	10.737	28.819	47.213	49.633	40	62	
LOGG CARN	74	1709	3	SPS	COHO	1	14	75.929	7.741	2.069	15.481	59.918	71.460	80.397	64	87	
LOGG CARN	74	1709	4		COHO	o	174	47.029	6.232	0.472	12.464	38.837	46.093	47.964	.38	67	
LOGG CARN	74	1709	4	SPS	COHO	1	23	78.043	7.559	1.576	15.117	57.134	74.781	81.306	68	92	
	74		-	SPS		o		47.769	5.944		11.889	35.334	46.681	48.857	38	68	٠
LOGG CARN	-	1909	5		COHO		117	81.308	9.647	2.676	19.294		75.475	87.140		103	
	74	1909	5		COHO	1	13					93.064				68	
LOGG CARN	74	1809	6		COHO	0	96	50.479	6.323	0.645	12.646	39.979	49.201	51.757			
LOGG CARN	74	1809	6		COHO	1	17	77.353	5.231 .	1.269	10.463	27.368	74.663	80.043		85.	
LOGG CARN	74	1809	8	SPS	COHO	0	88	51.943	5.383	0.574	10:765	28.974	50.801	53.085	. 44	- 68	
LOGG CARN	74	1809	.8	SPS	COHO	1	3	77.667	3.786	2.186	7.572	14.333	68.268	87.066		. 82	
LOGG CARN	74	1709		SPS	COHO	0	652	49.518	6.625	0.259	13.249	43.884	49.005	50.032		68	
LOGG CARN	74	1709		SPS	COHO	1	98	78.531	6.487	0.655	12.975	42.087	77.233	79.828	. 69	103	
LOGG CARN	74	1510		PS	COHO	0	93	53.849	6.331	0.657	12.663	40.086	52.550	55.149	43	70	
LOGG CARN	74	1510		PS	COHO	1	3	77.667	2.517	1.453	5.033	6.333	71.419	83.914	75	80	
LOGG CARN	74	1510	4	PS	COHO	0	84	48.024	6.497	0.709	12.995	42.216	46.613	49.435	40	70	
LOGG CARN	74	1510		PS	COHO	0	64	50,750	6.058	0.757	12.116	36.698	49.243	52.257	41	68	
LOGG CARN	74	1510		PS	COHO	1	. 4	83.250	3.775	1.887	7.550	14.250	77.248	89.252	79	-88	
LOGG CARN	74	1510		PS	COHO	0	19	52.211	4.638	1.064	9.276	21.500	49.976	54.445	45	61	
LOGG CARN	74	1510	2458	PS	COHO	0	260	51,085	6.640	0.412	13.281	44.093	50.269	51.900		70	
LOGG CARN	74	1510	2458	PS	COHO	1	7	80.857	4.259	1.610	8.519	18.143	76.913	84.801	75	88	
LOGG CARN	74	2905	TOTL	PS	RBT	. 1	21	55.571	4.600	1.004	9.199	21.157	53.474	. 57.669	47	65	
LOGG CARN	74	2507	2	SPS	RBT	0	2	34.000	1.414	1.000	2.828	2.000	21.290	46.710	33	35 -	
LOGG CARN	74	2507	2	SPS	RBT	1	8	84.250	11.323	4.003	22.646	128.214	74.802	93.698	70	100	
LOGG CARN	74	2507	2	SPS	RBT	2	3	126.667	8.021	4.631	16.042	64.333	106.754	146.579	119	135	
LOGG CARN	74	2507	. 2	SPS	RBT	3	2	148.500	7.778	5.500	15.556	60.500	78.595	218.405	143	154	
LOGG CARN	74	2507	. 3	SPS	RBT	0	2	37.000	. 1.414	1.000	2.828	2.000	24.290	49.710	36	38	
LOGG CARN	74	.2507	3	SPS	RBT	1	. 7	79.143	6.866	2.595	13.732	47.143	72.785	85.501	69	88	
LOGG CARN	74	2507	3	SPS	RBT	2	3	122.000	2.646	1.528	5.292	7.000	115.432	128.568	119	124	
LOGG CARN	74	2407	4	SPS	RBT	0	12	34.333	2.060	0.595	4.119	4.242	33.025	35,641	31	37	
LOGG CARN	74	2407	4	SPS	RBT	- 1	5	73.200	5.805	2.596	11.610	33.700	65.983	80.417	. 66	82	
LOGG CARN	74	2407	5	SPS	RBT	0	37	35.000	2.297	0.378	4.595	5.278	34.237	35.763		40	
LOGG CARN	74	2407	- 5	SPS	RBT	1	6	73.167	6.616		. 13.231	43.767	66.226	80,108	65	82	
LOGG CARN	74	2407	. 5	SPS	RBT	3	1	177,000	.0.0.0	2		.40					
LOGG CARN	74	2307	. 6	SPS	RBT	ŏ	57	33.754	1.467	0.194	2.935	2.153	33.366	34.143	31	37	,
LOGG CARN	74	2307	6	SPS	RBT	1	12	73.750	6.649	1,919	13.297	44.205	69.528	77.972	60	88	
LOGG CARN	74	2307	8	SPS	RBT	o	41	34.024	2.877	0.449	5.753	8.274	33.117	34.932	29	40	
LOGG CARN	74	2307	8	SPS	RBT	1	14	68.786	4.807	1.285	9.613	23.104	66.011	71.561	61	77	
LOGG CARN	74	1608	2	PS	RBT	0.	2	40.000	2.828	2.000	5.657	8.000	14.580	65.420	38	42	
LOGG CARN	74	1608	. 2	PS	RBT	1	2	77.500		5.500	15.556	60.500	7.595	147.405	72	83	
LOGG CARN	74	1608	2	PS.	RBT	2	3		16.442	9.493		270.333	75.515	157.152		135	
LOGG CARN	74	1609	. 2		RBT	0	. 4	52.500		1.041	4.163	4.333	49.190	55.810		55	
LOGG CARIE	, -	1008		_ 373	NOI			32.500	2.002	1.041	4. 103	4,333	49.180	00.010	. 50	90	

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ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	5	SXBAR	25	5*5	C.I.MIN	C.I.MAX		MAX	
	CARN	74 74	1609	2 2		RBT	1 2	8	89.125 125.000	14.317	5.062	28.634	204.982	77.179	101.071	75	116	
	CARN	74	1709	. 3		RBT	ő.	4	57.500	3,109	1.555	6.218	9.667	52.556	62.444	- 55	62	
		74	1709	3		RBT	1	9	85.222	7.612	2.537	15.224	57.944	79.361	91.084	74	96	
	CARN			_				3	125.000	1.000	0.577	2.000	1.000	122.517	127.483		126	
	CARN	74	1709	3		RBT	2	-		5, 134	1.424	10.268	26.359	49.127	55.335	46	64	
	CARN	74	1709	4	SPS.	RBT	0	13	52.231		2.798	13.706	46.967	72.643	87.024	72	. 89	
	CARN	74	1709	4	SPS.	RBT	1	-6	79.833	6.853					43.209	32	51	
	CARN	74	1909	5	SPS	RBT	0	57	41.842	5.161	0.684	10.322	26,635	40.475		80	89	
	CARN	74	1909	. 5		RBT	1	4	82.750	4.193	2.097	8.386	17.583	76.083	89.417		48	
	CARN	74	1809	6		RBT	0	36	41.833	3.427	0.571	6.854	.11.743	40.674	42.993	36		
	CARN	74	1809	6		RBT	1	9	78.333	8.047	2.682	16.093	64.750	72.137	84.529	69	93	
	CARN	74	1809	6		RBT	3	1						****				
	CARN	74	1809	8	SPS	RBT	0	63	46.159	7.033	0.886	14.065	49.458	44.396	47.922	35	69	*
	CARN	74	1.809	8	SPS	RBT	1	7	77.143	4.598	1.738	9.196	21,143	72.885	81,401	72	86	
	CARN	74	,1809	8	SPS	RBT	2	2	126.500		10.500	29.698	220.500	-6.955	259.955		137	
LOGG	CARN	74	1909	TOTL	SPS	RBT	0	176	44.500	6.199	0.467	12.397	38.423	43.575	45.425	32	64	
	CARN	74	1909		SPS	RBT	1	44		10.546	1.590	21.091	111.209	79.804	86.196		116	
LOGG	CARN	74	1909		SPS	RBT	2	4	128.000	6.055	3.028	12.111	.36,667	118.372	137.628	124	137	
LOGG	CARN	74	1909	TOTL	SPS	RBT	3	1	141.000									
LOGG	CARN	74	1510	58	PS	RBT	. 0	. 24	45.208	3.362	0.686	6.724	11.303	43.788	46.629	. 37	52	
LOGG	CARN	74	2105	TOTL	SPS	ALUT		171	59.076	11.481	Q.878	22.962	131.812	57.338	60.814	36	104	
LOGG	CARN	.74	1906	2	SPS	ALUT	-	102	55.500	8.275	. 0.819	16.549	68.470	53.878	57.122	. 38	82	
LOGG	CARN	74	2507	2	SPS	ALUT		182	60.165	11.966	0.887	23.931	143.177	58.409	61.921	. 40	101	
LOGG	CARN	74	2507	3	SPS	ALUT		16	68.563	13.721	3.430	.27.442	188.262	61.256	75.869	53	103	
LOGG	CARN	74	2407	4	SPS	ALUT		4	73.000	16.793	8.396	33.586	282.000	46.299	99.701	51	90	
	CARN	74	2407	. 5	SPS	ALUT	-	24		12.086	2.467	24.173	146.080	76.976	87.190	65	105	
LOGG	CARN	74	2307	6		ALUT		13	72.000		2.372	17.108	73.167	66.828	77.172	59	87	
	CARN	74	2307	8	SPS	ALUT	-	39		10.850	1.737	21.701	117.730	76.978	83.997	55	103	
	CARN	74	1608	2		ALUT	-	. 84	56.560	9.967	1.087	19.933	99.334	54.396	58.724	. 40	78	
	CARN	. 74	1609	. 2		ALUT		131		10.318	0.901	20.636	106.463	58.024	61.594	43	84	
	CARN	74	1709	3		ALUT		37		14.375	2.363	28.750	206.640	65.388	74.936	51	108	
	CARN	74	1709	. 4	SPS	ALUT	-	6	76.833	5.601	2.286	11.201	31.367	70.957	82.709	71	83	*
	CARN	74	1909	5	SPS	ALUT		-		11.530	2.105	23.060	132.944	74.272	82.861	59	102	
	CARN	74				ALUT	-	30	81.857					76.699	87.015	66	101	
			1809	6			-	200		8.934	2.388	17.869	79.824			63	95	
	CARN	.74	1809	. 8	SPS	ALUT	-	17	78.529	9.395	2.279	18.790	88.265	73.699	83.360			
	CARN	74	1906	2	SPS	ASPR	-	16	61.438		2.682	21.453	115.063	55.726	67.149	45	80	
	CARN	74	2507	2	SPS	ASPR	-	3		12.124	7.000	24.249	147.000	59.900	120.100	79	103	
	CARN	.74	1608	. 2	SPS	ASPR	-	2	52.000	5.657	4.000	11.314	32.000	1.160	102.840	. 48	56	
	CARN	74	1609	2	SPS	ASPR	-	6	89.833	4.355	1.778	8.710	18.967	85.264	94.403	83	94	
	CARN	74	1709	. 3	SPS	ASPR		2	103.000	7.071	5.000	14.142	50.000	39.450	166.550	98	108	
	CARN	74		UPER	S	CT	1	9	60.667	7.583	2.528	15.166	57.500	54.828	66.505	50	.73	
	CARN	.74		UPER	5	CT	2	13	109.000		3.934	28.367	201.167	100.424	117.576	87	127	
	CARN	74		UPER	5	CT	3	7	138.714	9.995	3.778	19.990	99.905	129.459	147.970		160	
LOGG	CARN	74		UPER	S	CT	0	30	38.667	4.964	0.906	9.928	24.644	36.818	40.516	32	49	
LOGG	CARN	74	2009	UPER	S	CT	. 1	26	75.692	6.342	1.244	12.684	40.222	73.130	78.254	65	. 88	
LOGG	CARN	74	2009	UPER	. 5	CT	2	17	113.765	11.031	2.676	22.063	121.691	108.093	119.437	. 92	132	
LOGG	CARN	74	2009	UPER	S	CT	. 3	4	143.500	11.210	5.605	22.420	125.667	125.676	161.324	135	160	
LOGG	CARN	. 74 .	2006	2100	S	· . CT	0	12	26.333	0.778	0.225	1.557	0.606	25.839	26.828	. 25	27	
LOGG	CARN	74	2006	2100	5	CT	. 1 .	. 6	73.167	8.159	3.331	16.318	66.567	64.606	81.727	63	83	
LOGG	CARN	74	2006	2100	5	CT	2	7	109.429	9.813	3.709	19.625	96.286	100.342	118.515	95	119	
LOGG	CARN	74	2006	2100	. 5	CT	3	. 2	156.500		15.500	43.841	480.500	-40.505	353.505	141	172	
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ID STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
LOGG CARN	74	1809	2100	5	СТ	0	48	47.208	6.025	0.870	12.049	36.296	45.460	48.956	32	59	
LOGG CARN	74		2100	S	CT	1	19	83.895	10.671	2.448	21.343	113.877	78.754	89.036	65	100	
LOGG CARN	74		2100	. 5	CT	2	2	117.500	3.536	2.500	7.071	12.500	85.725	149,275	115	120	1
LOGG CARN	74		2100		CT	3	2	156.500	12.021	8.500	-24.042	.144.500	48.465	264.535	148	165	
LOGG CARN	74		1600		COHO	0	203	42.862	3.872	0.272	7.744	14.991	42.324	43.400	37	54	
LOGG CARN	74	2006		5	COHO	1	35	68.200	6.712	1.134	13.423	45.047	65.897	70.503	. 56	85	
LOGG CARN	74 .		1600	PS	COHO	o	67	48.269	4.876	0.596	9.752	23.775	47.083	49.454	39	59	*
LOGG CARN	74	0208	1600	PS	COHO	1	9	72.222	7.155	2.385	14.310	51.194	66.713	77,732	64	83	-
LOGG CARN	74	1909	1600	5	COHO	0	134	49.209	6.114	0.528	12.229	37.385	48.163	50.255	38	67	1
LOGG CARN	74	1908		S	COHO	1	23	76.435	6.163	1.285	12.326	37.984	73.775	79.095	69	92	
LOGG CARN	74	1810	1600	PS.	COHO	0	72	48.472	4.979	0.587	9.957	24.788	47,305	49.640	37	61	
LOGG CARN	74	1810	1600	PS	COHO	. 1:	12	75.500	5.617	1.621	11.233	31.545	71.933	79.067	68	. 87	
LOGG CARN	74	2006	1600	5	. CT	1	6	63.833	5.707	2.330	11.413	32.567	57.846	69.821	53	69	
LOGG CARN	74 .	2006	1600	S	· CT	2	2	118.000	11.314	8.000	22.627	128.000	16.320	219.680		126	
LOGG CARN	74	2006	1600	S	CT	3	3	137.667	9.292	5.364	18.583	86.333	114.599	160.734	130	148	
LOGG CARN	74	1909	1600	S	CT	0	1	37.000								:	
LOGG CARN	74	1909	1600	S	CT	1	4	77.000	4.546	. 2.273	9.092	20.667	69.772	84.228	71	82	
LOGG CARN	74	1909	. 1600	5	CT	2	1	113.000									
LOGG CARN	74	1909	1600	S	CT	. 3	2	171.500	19.092	13.500	38.184	364.500	-0.085	343.085		185	
LOGG CARN	74	2708	USEL	. 5	COHO	0	22	57.500	5.466	1.165	10.933	29.881	55.076	59.924	47		
LOGG CARN	74		USEL	S	CT	0	8	42.375	6.093	2.154	. 12. 186	37.125	37.291	47.459	33	51	
LOGG CARN	74	. 2708	USEL	.5	· · CT	1	28	85.286	8.415	1.590	16.829	70.804	82.026	88.546	72	102	
LOGG CARN	74	2708	USEL	5	CT	2	3		8.021	4.631	16.042	64.333	111.754	151.579		140	
LOGG CARN	74		USEL	S	CT	3	3	161.667		17.676	61.232	937.333	85.659	237.674	4.0	197	
LOGG CARN	74		USEL	S	ALUT		49		18.989	2.713	37.978	360.574	70.282	81.187	.44	115	-
LOGG CARN	74		FRED	S	COHO	0	86		9.932		19.864	98.640	54.787	59.050	42	81	
LOGG CARN	74		FRED	S	RBT	0	2		4.243	3.000	8.485	18.000	8.870	85.130	44	. 50	
LOGG CARN	74		FRED	. 5	RBT	1	1	117.000									
LOGG CARN	74		FRED	S	ALUT	-	150	39.493	8.253		16.507	68.117	38.159	40.828	27	65	
LOGG CARN	74		FRED	5	ASPR.		181		17.521	1.302	.35.041	306.974	59.068	64.225	37.	147	
LOGG CARN	74		PACH	S	COHO	. 0	64	51.016	6.303		. 12.606	39.730	49.448	52.584	40	64	
LOGG CARN	74 .		PACH	S	COHO	1	16		10.868	2.717	21.736	118.117	71.338	62.912	66	99	
LOGG CARN	74.		PACH	5	RBT	0	13	43.692		1.195	8.617	18.564	41.087	46.297	37	51	
LOGG CARN	. 74.		PACH	5	RBT	1	6		10.231	4.177		104.667	85.933	107.401	83	114	
LOGG CARN	74	-	PACH	5	ALUT		24		10.529	2.149	21.059	110.868	56.009	64.907	46	144	
LOGG CARN	74		PACH	S	ASPR	-	63		17.252	2.174	34.504	297.630	85.849	94.500	40	-	
LOGG CARN	74		RITH	5	CT	. 0	105		6.786	0.662	13,573	46.055	51.260	53.883	78	113	
LOGG CARN	74 .		RITH	S	CT	1 .	-	92.732		1.338	17.135	73.401	90.029	95.434		147	
LOGG CARN	74		RITH	S	CT	2	. 7			3.448	18.247	83.238	125.266	142.163		192	
LOGG CARN	74	2908	RITH	5	. CT	3	3	171.000	18.248	10.536	36.497	333.000	125.697	216.303	108	194	
LOGG CARN	75		FENC	TR	COHO	1	5	65.200	3.271	1.463	6.542	10.700	61.133	69.267	62	70	
LOGG CARN	75		FENC	TR	COHO	3	1	85.000				00 400		68.911	60	79	
LOGG CARN	75		FENC	TR	COHO	1	28	66.714	5.669	1.071	11.338	32.138	64.518	84.918	77	91	
LOGG CARN	75		FENC	TR	COHO	2 -	15	82.733	3.955	1.021	7.909	15.638	80.548 65.603	69.311	60	78	
LOGG CARN	75 75		FENC	TR	COHO	1 2	35 8	67.457 85.250	7.186	0.913	10.807	29.197	79.254	91.246	77	97	
LOGG CARN	75		FENC	TR	COHO	1	20	67:850	5.537	1.238	11,074	30.661	65.262	70.438	60	77	
LDGG CARN	75		FENC	TR	COHO	2	3	84.000	9.849	5.686	19.698	97.000	59.549	108.451	76	95	
LOGG CARN	75		FENC	TR	COHO		120	70.958	7.073	0.646	14.145	50.023	69.680	72.237	60	88	
LOGG CARN	75		FENC	TR	COHO		. 60		10.499		20.997	110.220	84.106		. 72	122	

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																	RAN	IGE	
	10	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	· s	SXBAR	25	5*5	C.I.MIN	C.I.MAX			
	LOGG	CARN	75	3004	FENC	TR	соно	1	206	71.505	6.695	0.466	13.391	44.827	70.581	72.428	60	88	
	LDGG	CARN	75	3004	FENC	TR	COHO	2	103	93.893	9.847	0.970	19.694	96.959	. 91.972	95.814	78	. 125	
	LOGG	CARN	. 75	0705	FENC	TR	COHO	1	225	75.093	7.501	0.500	15.002	56.264	74.103	76.083	. 60	92	4
;	LOGG		75		FENC	TR	COHO	2 .	188	95.532	8.992	0.656	17.983	80.849	94.233	- 96.830	. 75	120	٠.
	LOGG		75		FENC	TR	COHO	1	176	77.886	8.067	0.608	16.134	65.073	76.682	79.090	60	91	
		CARN	75	1405		TR	COHO	2	210	96:167	8.073	0.557	16.146	65.173	95:064	97,270	75	130	
		CARN	75	2105		TR	COHO	1	71	76.972	6.153	0.730	12.306	37.856	75.519	78.425	64	92	
		CARN	75.	2105		TR	COHO	2	97	92.887	9.216	. 0.936	18.432	. 84.935	91.034	94.739	. 75	126	
		CARN	. 75	2805		TR	COHO		142	82.232	9.078	0.762	18.156	82.407	80.724	83.741	60	100	
		CARN	75.	2805		TR	COHO	2	53	98.755	9.319	1.280	18.638	86.843	96.195	101.315	87	125	
		CARN.	75		FENC	TR	COHO	1	97	79.278	10.350	1.051	20.700	. 107 . 120	77.198	81,359	60	100	
		CARN	75:		FENC	TR	COHO	2 .	40	100.650	9.407	1.487	18.814	88.490	97.646	103.654	87	124	
		CARN	75	1106		TR	COHO	1	21	79.000	9.295	2.028	18.590	86.400	74.761	83.239	61	92	
									5	98 400	3.209	1.435		10.300	94.410	102.390	86	104	
		CARN	75 .	1106		TR	COHO	. 2	_				6.419			75.417	60	74	
		CARN	.75	1806		TR	COHO	1	5	68 . 200	5.805	2.596	11.610	33.700	60.983		-	40	
		CARN	75.		FENC	TR	COHO	0	60	37.100	1.602	0,207	3.204	2.566	36.686	37.514	32	39	
		CARN	75		FENC	TR	COHO	0	62	36 58 1	1.181	0.150	2.362	1.395	36.282	36.879	34		
		CARN	75	2004		TR	COHO	0	54	38.759	1.196	0.163	2.393	1.432	38.434	39.085	37	. 41	
		CARN	75		FENC	TR	COHO	0	. 52	38.712	1.054	0.146	2.108	1.111	38.419	39.004	36	42	
		CARN	75		FENC	TR	COHO	0	50	38.860	1.370	0.194	2.741	1.878	38.470	39.250	35	41	
		CARN	. 75		FENC	TR	COHO	0	31.	38.935	1.672	0.300	3.344	2.796	38.323	39:548	34	41.	
		CARN	75		FENC	TR	COHO	. 0	73	39.479	1.454	0.170	2.908	2.114	39.141	39.818	36	42	
		CARN	75 -	1604		TR	CHUM	0	50	41.480	0.614	0.087	1.228	0.377	41.305	41,655	40	43	
		CARN	75	2604		TR	CHUM	0	50	43.240	1.001	. 0.142	. 2.002	1.002	42.955	43.525	41	45	*
	LOGG	CARN	75	0405	FENC	TR	CHUM	0	. 51	41.078	1.111	0.156	2.221	1.234	40.766	41.391	. 40	45	
	LOGG	CARN	75	1005	FENC	TR	CHUM	. 0	50	41.980	0.937	0.132	. 1.873	0.877	41.714	42.246	40	- 44	
	LOGG	CARN	75	2005	FENC	TR	CHUM	0	50	41.280	0.882	0.125	1.763	.0.777	41.029	41.531	. 39	43	
,	LOGG	CARN	75	0406	FENC	TR	CHUM	0	26	41.423	1.027	0.201	2.053	1.054	41.008	41.838	40	44	
	LOGG	CARN	75	2205	2	PS	COHO	0	61.	40.770	2.597	0.333	5.195	6.746	40.105	41.436	35	48	
	LOGG	CARN	75	2205	2	PS	COHO	1	7	58.714	5.219	1.973	10.438	27.238	53.881	. 63.547	. 51	66	
	LOGG	CARN	75 -	2205	. 2	PS	COHO	2	3	83.333	1.528	0.882	3.055	2.333	79.541	87,126	82	- 85	
	LOGG	CARN	75	2205	. 3	PS	COHO	0 .	. 71	38.901	1.972	0.234	3.945	3.890	38.436	39.367	34	43	
		CARN	75	2205	4	PS	COHO	. 0	105	40.057	1.980	0.193	3.960	3.920	39.675	40.440	36	49	
		CARN	75	2205	4	PS	COHO	1	25	58.080	4.743	0.949	9.485	22.493	56.126	60.034	50	67	
		CARN	75	2205	. 4	PS	COHO	2	3	89,667	9.609	5.548	19.218	92.333	65.811	113.522	-81	100	
,		CARN	75	2205	5	. PS	COHO	0	51	40.118	1.796	0.252	3.592	3.226	39.612	40.623	. 38	- 48	, b
		CARN	75	2205	5	PS	COHO	1	. 2	58.500	0.707	0.500	1.414	0.500	52.145	64.855	58	59	
		CARN	75	2205	6	PS	COHO	0	75	39.867	1.862	0.215	3.725	3.468	39.439	40.295	35	46	
		CARN	75	2205	6	PS	COHO	1	. 3				16.289	66.333	38.447	78.886	53	68	
		CARN	75	2205	8	PS	COHO	0	54	58.667	8.145	4.702	4.145	4.295	39.121	40.249	35	44	
	LOGG		75	2205	8	PS		1	2	39.685	2.072	0.282					51	52	
					_		COHO		_	51.500	0.707	0.500	1.414	0.500	45.145	57.855			
		CARN	75	2205		PS	COHO	1	39	57.923	4.938	0.791	9.877	24.389	56.326	59.520	- 50	68	
		CARN	75	2205	TOTL	PS	COHO	2 .	6	86.500	7.064	2.884	14.128	49.900	79.088	93.912	81	100	٠,
		CARN	75	1.706	. 2	PS.	COHO	0	105	42.943	3.116	0.304	6.232	. 9.708	42.341	.43.545	37	51	
		CARN	75	.1706	2	PS	COHO	. 1	4	67.250	8.068	4.535	18.138	82.250	52.830	81.670	54	74	
	LOGG		75	2,107	2	SPS	COHO	. 0	157	49.682	5.342	0.426	10.684	28.539	48.837	50.526	40	65	
	LOGG		75	2107	. 2	SPS	COHO	1	20	76.050	4.817	1.077	9.635	23.208	73.799	78.301	67	84	
		CARN	75	2407	. 3	SPS	COHO	. 0	82	47.195	4.144	0.458	8.288	17.171	46.284	. 48, 106	40	58	
	LOGG		75	2407	3	SPS	COHO	1	14	73.071	6,415	1.714	12.829	41.148	69.368	.76.775	66	87	
		CARN	75	2307	. 4	SPS	COHO	0	217	45.267	3.846	0.261	7.691	14.789	44.750	45.784	35	.60	
	LOGG	CARN	75	2307	4	SPS	COHO	1	.12	67.333	3.627	1.047	7.253	13.152	65.030	69.636	62	73	
	6					,						**							

LOGG CARN 75 2307 5 5PS COHO 0 101 45.446 4.708 0.469 8.417 22.170 44.818 46.373 38 61 1000 CARN 75 2307 6 5PS COHO 0 111 70.727 5 140 1,550 10.280 2.418 67.271 74.183 64 80 1000 CARN 75 2307 6 5PS COHO 0 1 11 70.727 5 140 1,550 10.280 2.418 67.271 74.183 64 80 1000 CARN 75 2307 6 5PS COHO 0 1 12 70.867 4.504 10.181 70.871 74.000 10.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000								. *										RAN	IGE	
LOGG CARN 75 2307 6 SPS COHO 1 11 70.727 5 140 1,880 10.280 22.418 87.277 47.183 84 80 LOGG CARN 75 2207 6 SPS COHO 1 15 70.867 4.704 1.214 9.407 22.124 68.288 73.496 64 78 LOGG CARN 75 2207 8 SPS COHO 1 15 70.867 4.704 1.214 9.407 22.124 68.288 73.496 64 78 LOGG CARN 75 2207 8 SPS COHO 1 15 70.867 4.704 1.214 9.407 22.124 68.288 73.496 64 78 LOGG CARN 75 2207 8 SPS COHO 1 27 71.000 0.000 0.000 0.000 71.000 71.000 71.007 71 1.000 2.000 0.000 0.000 0.000 0.000 0.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.000 71.0000 71.0000 71.000 71.000 71.000 71.0000 71.0000 71.0000 71.0000 71.0000 71.0000 71.0000		ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX			
LOGG CARN 75 2207 6 SPS COHD 0 119 47.815 3.608 0.331 7.216 13.018 47.400 48.470 40.81 1.00G CARN 75 2207 8 SPS COHD 1 57.0867 4.704 1.214 9.407 2.2124 68.268 73.468 64 78 40.66 47 1.00G CARN 75 2207 8 SPS COHD 1 73 47.863 5.339 0.625 10.678 28.509 48.619 49.107 37 63 1.00G CARN 75 2207 7 SPS COHD 1 73 72.151 5.678 0.665 11.365 32.241 70.828 73.473 62 87 1.00G CARN 75 2108 2 PS COHD 1 73 72.151 5.678 0.665 11.365 32.241 70.828 73.473 62 87 1.00G CARN 75 2108 2 PS COHD 1 57 74.400 3.209 1.435 6.419 10.300 70.410 78.390 72 80 1.00G CARN 75 2108 2 PS COHD 1 57 74.400 3.209 1.435 6.419 10.300 70.410 78.390 72 80 1.00G CARN 75 100 2 SPS COHD 1 57 74.400 3.209 1.435 6.419 10.300 70.410 78.390 72 80 1.00G CARN 75 100 3 SPS COHD 1 57 74.400 3.209 1.435 6.419 10.300 70.410 78.390 72 80 1.00G CARN 75 1609 3 SPS COHD 1 57 74.607 5.419 10.00G CARN 75 1609 3 SPS COHD 1 57 74.607 74.00 1.00G CARN 75 1609 3 SPS COHD 1 57 74.607 74.00 1.00G CARN 75 1609 3 SPS COHD 1 57 74.607 74.00 1.00G CARN 75 1609 3 SPS COHD 1 57 74.607 74.00 1.00G CARN 75 1609 3 SPS COHD 1 50 75 74.00 1.00G CARN 75 1609 4 SPS COHD 1 50 75 74.00 1.00G CARN 75 1609 3 SPS COHD 1 50 75 74.00 1.00G CARN 75 1609 3 SPS COHD 1 50 75 74.00 1.00G CARN 75 1609 3 SPS COHD 1 50 75 74.00 1.00G CARN 75 1609 3 SPS COHD 1 50 75 74.00 1.00G CARN 75 1609 4 SPS COHD 1 50 75 75 75 75 75 75 75 75 75 75 75 75 75				75	2307	5	SPS	соно	0	101	45.446	4.708	0.469	9.417	22.170	44.518	46.373	38	61	
LOGG CARN 75 2207 8 SPS COHO 7 73 47.863 5.339 0.023 10.672 22.124 68.268 73.466 64 79 10.000 CARN 75 2207 8 SPS COHO 1 2 71.000 CO.000 0.000 0.000 71.000 71.000 71 71 10.000 CARN 75 2307 101 SPS COHO 1 2 71.000 0.000 0.000 0.000 71.000 71.000 71 71 10.000 CARN 75 2307 101 SPS COHO 1 2 71.000 0.000 0.000 0.000 71.000 71.000 71 71 10.000 CARN 75 2108 2 PS COHO 1 73 72.151 5.678 0.065 11.300 32.241 70.282 73.473 62 87 10.000 CARN 75 2108 2 PS COHO 1 5 74.400 3.209 1.435 6.419 10.300 70.410 78.300 72 80 10.000 CARN 75 1809 2 SPS COHO 1 5 74.400 3.209 1.435 6.419 10.300 70.410 78.300 72 80 10.000 CARN 75 1809 2 SPS COHO 1 57 74.000 77.221 10.011 14.400 5.200 57.192 43 68 10.000 CARN 75 1809 3 SPS COHO 1 11 80.435 6.440 1.011 14.400 5.200 57.192 43 68 10.000 CARN 75 1809 3 SPS COHO 1 11 80.435 6.440 1.011 14.400 74.634 78.699 68 92 10.000 CARN 75 1809 3 SPS COHO 1 11 80.435 6.440 1.011 14.400 74.634 78.690 68 92 10.000 CARN 75 1809 3 SPS COHO 1 11 80.435 6.440 1.011 14.400 74.640 74.640 75 10.000 74.640 74.640 75 10.000 74.640 74.640 74.640 75 10.000 74.640 74.640 75 10.000 74.640 74.640 75 10.000 74.640 74.640 75 10.000 74.640 74.640 75 10.000 74.640 74.640 75 10.000 74.640 74.640 75 10.000 74.640 74.640 75 10.000 74.640 74.640 74.640 75 10.000 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 74.640 7						. 5	SPS	COHO	1	. 11	70.727	5.140	. 1,550	10.280	26.418	67.271	74.183	64	80	
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LOGG CARN 75 2307 TOTL SPS COHO 1 73 72.151 5.678 0.685 11.386 32.241 70.828 73.473 62 87 1.00G CARN 75 2108 2 PS COHO 0 72 53.403 5.984 0.702 11.386 32.241 70.828 73.473 62 87 1.00G CARN 75 1080 2 PS COHO 1 5 74.400 3.209 1.435 6.419 10.300 70.410 78.380 72 80 1.00G CARN 75 1809 2 SPS COHO 0 240 56.486 5.445 0.351 10.890 29.649 85.800 77 8.380 72 80 1.00G CARN 75 1609 2 SPS COHO 1 5 17 76.687 7.221 1.011 14.443 52.147 74.634 78.699 68 92 1.00G CARN 75 1609 3 SPS COHO 0 92 53.217 5.553 0.579 11.105 30.831 82.071 84.384 42 69 1.00G CARN 75 1609 3 SPS COHO 0 92 53.217 5.553 0.579 11.105 30.831 82.071 84.384 42 69 1.00G CARN 75 1609 3 SPS COHO 0 92 53.217 5.553 0.579 11.105 30.831 82.071 84.384 42 69 1.00G CARN 75 1609 4 SPS COHO 0 266 52.089 5.895 0.361 11.780 34.753 51.382 82.133 39 67 1.00G CARN 75 1609 4 SPS COHO 0 220 52.464 5.00G 0.341 1.780 34.753 51.382 82.813 39 67 1.00G CARN 75 1709 5 SPS COHO 1 26 70.923 5.506 1.080 11.012 30.314 88.698 73.147 62 85 1.00G CARN 75 1709 5 SPS COHO 1 1 14 73.643 7.045 1.883 14.090 49.632 68.767 77.710 65 90 1.00G CARN 75 1709 5 SPS COHO 1 33 88.940 8.532 0.488 11.286 31.724 88.893 73.497 68.00G CARN 75 1709 6 SPS COHO 1 33 88.940 8.532 0.488 11.286 31.724 88.893 75.807 48 68 1.00G CARN 75 1709 6 SPS COHO 1 33 88.940 8.532 0.488 11.286 31.724 88.893 75.807 48 68 1.00G CARN 75 1709 TOTL SPS COHO 1 3 38.894 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.594 8.5						8		COHO	0	73	47.863	5.339	0:625	10.679	28.509	46.619	49. 107	37	63	
LOGG CARN 75 2108 2 PS COHO 0 72 83.403 5.984 0.702 11.909 18.485 53.008 54.709 44.86   LOGG CARN 75 1809 2 SPS COHO 0 5 74.00 3.209 1.435 6.419 10.300 70.410 76.380 72 80   LOGG CARN 75 1809 2 SPS COHO 0 240 56.486 5.445 0.351 10.800 29.649 55.800 57.192 43 68   LOGG CARN 75 1809 2 SPS COHO 0 92 53.217 5.583 0.576 11.001 14.43 52.147 74.634 78.698 68 92   LOGG CARN 75 1609 3 SPS COHO 0 92 53.217 5.583 0.576 11.005 30.831 82.071 54.364 42 69   LOGG CARN 75 1609 3 SPS COHO 0 92 53.217 5.583 0.576 11.005 30.831 82.071 54.364 42 69   LOGG CARN 75 1609 4 SPS COHO 0 266 52.086 5.895 0.361 11.790 30.831 82.071 54.364 42 69   LOGG CARN 75 1609 4 SPS COHO 0 266 52.086 5.895 0.361 11.790 30.831 82.071 54.364 42 69   LOGG CARN 75 1609 4 SPS COHO 0 266 52.086 5.895 0.361 11.790 30.831 82.071 84.783 91.382 52.813 39 67   LOGG CARN 75 1709 5 SPS COHO 0 220 52.464 5.086 0.343 10.172 28.866 81.785 53.143 42 66   LOGG CARN 75 1709 5 SPS COHO 0 147 73.643 7.045 1.883 14.090 49.632 88.576 77.710 65 SPS COHO 0 133 56.940 5.632 0.488 11.285 31.724 88.873 57.907 43 68   LOGG CARN 75 1709 6 SPS COHO 0 133 78.182 6.531 1.137 13.062 42.653 75.874 80.490 68 94   LOGG CARN 75 1809 8 SPS COHO 0 124 53.419 5.834 0.524 11.688 34.034 82.382 54.487 43 70   LOGG CARN 75 1809 8 SPS COHO 0 124 53.419 5.834 0.524 11.688 34.034 82.382 54.487 43 70   LOGG CARN 75 1709 FOTTL SPS COHO 1 141 75.986 71.600 0.603 14.321 51.71 74.792 77.180 63 94   LOGG CARN 75 1709 FOTTL SPS COHO 1 141 75.986 71.600 0.603 14.321 51.71 74.792 77.180 63 94   LOGG CARN 75 1709 FOTTL SPS RBT 1 15 53.667 4.995 1.290 9.890 24.995 97.000 103.100 128.800 110 119   LOGG CARN 75 1709 FOTTL SPS RBT 1 15 53.667 4.995 1.290 9.890 24.995 97.000 103.100 128.800 110 119   LOGG CARN 75 1709 FOTTL SPS RBT 0 8 40.800 1.095 0.480 2.191 1.200 39.438 42.162 39 42   LOGG CARN 75 1709 FOTTL SPS RBT 0 8 40.800 1.095 0.480 2.191 1.700 97.200 86.200 74 88   LOGG CARN 75 1709 FOTTL SPS RBT 0 8 40.800 1.095 0.480 2.191 1.700 97.200 86.200 74 88   LOGG CARN 75 1700 FOTTL SPS RBT 0 8 40.800 1.095 0.													0.000	0.000	0.000	71.000	71.000	71	71	
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LOGG CARN 75 2107 2 SPS RBT 0 5 40.800 1.095 0.490 2.191 1.200 39.438 42.162 39 42 LOGG CARN 75 2107 2 SPS RBT 1 2 93.000 4.243 3.000 8.485 18.000 54.870 131.130 90 96 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.															51.271	74.792	77.180	63	94	
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LOGG CARN 75 2107 2 SPS RBT 2 3 116.000 5.196 3.000 10.392 27.000 103.100 128.900 110 119 LOGG CARN 75 2407 3 SPS RBT 0 29 41.586 2.860 0.531 5.720 3.180 40.497 42.675 35 46 LOGG CARN 75 2307 4 SPS RBT 0 44 38.273 1.662 0.251 3.323 2.761 37.769 38.776 38 42 LOGG CARN 75 2307 4 SPS RBT 1 8 78.125 9.078 3.210 18.186 82.411 70.550 85.700 67 95 LOGG CARN 75 2307 5 SPS RBT 2 1 111.000 LOGG CARN 75 2307 5 SPS RBT 1 2 9.5500 0.707 0.500 1.414 0.500 89.145 101:855 95 96 LOGG CARN 75 2307 5 SPS RBT 1 2 9.5500 0.707 0.500 1.414 0.500 89.145 101:855 95 96 LOGG CARN 75 2307 5 SPS RBT 1 102.000 LOGG CARN 75 2307 6 SPS RBT 1 170.000 LOGG CARN 75 2307 6 SPS RBT 1 170.000 LOGG CARN 75 2307 6 SPS RBT 1 170.000 LOGG CARN 75 2307 6 SPS RBT 1 170.000 LOGG CARN 75 2307 6 SPS RBT 1 170.000 LOGG CARN 75 2307 6 SPS RBT 1 117 73.727 4.901 1.478 9.802 24.018 70.432 77.022 86 81 LOGG CARN 75 2207 6 SPS RBT 2 4 99.000 2.944 1.472 8.888 8.667 94.319 103.681 98 102 LOGG CARN 75 2207 8 SPS RBT 0 68 34.397 4.034 0.489 8.068 16.273 33.424 38.371 28 43 LOGG CARN 75 2207 8 SPS RBT 1 8 67.500 4.957 1.753 9.914 24.871 63.364 71.636 61 75 LOGG CARN 75 2207 8 SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 2 1 104.545 7.160 2.159 14.321 51.273 99.731 109.360 96 119 LOGG CARN 75 1809 2 SPS RBT 2 1 104.545 7.160 2.159 14.321 51.273 99.731 109.360 96 119 LOGG CARN 75 1809 2 SPS RBT 2 1 104.545 7.160 2.159 14.321 51.273 99.731 109.360 96 119 LOGG CARN 75 1809 2 SPS RBT 2 1 104.545 7.160 2.159 14.321 51.273 99.731 109.360 96 119 LOGG CARN 75 1809 2 SPS RBT 2 1 104.545 7.160 2.159 14.321 51.273 99.731 109.360 96 119 LOGG CARN 75 1809 3 SPS RBT 2 1 114.000 LOGG CARN 75 1809									-						1.200	39.438	42.162	. 39	42.	
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LOGG CARN 75 2307 4 SPS RBT 0 44 38.273 1.662 0.251 3.323 2.761 37.769 38.776 35 42 LOGG CARN 75 2307 4 SPS RBT 1 8 78.125 9.078 3.210 18.156 82.411 70.550 85.700 67 95 LOGG CARN 75 2307 4 SPS RBT 2 1 111.000																103.100	128.900	110	119	
LOGG CARN 75 2307 4 SPS RBT 1 B 78.125 9.078 3.210 18.156 82.411 70.550 85.700 67 95 LOGG CARN 75 2307 4 SPS RBT 2 1 111.000   LOGG CARN 75 2307 5 SPS RBT 0 57 38.386 2.226 0.295 4.452 4.956 37.796 38.976 33 45 LOGG CARN 75 2307 5 SPS RBT 1 2 95.500 0.707 0.500 1.414 0.500 89.145 101.855 95 96 LOGG CARN 75 2307 5 SPS RBT 1 2 95.500 0.707 0.500 1.414 0.500 89.145 101.855 95 96 LOGG CARN 75 2307 6 SPS RBT 0 58 34.362 2.894 0.380 5.788 8.375 33.602 35.122 31 41 LOGG CARN 75 2207 6 SPS RBT 1 11 73.727 4.901 1.478 9.802 24.018 70.432 77.022 96 81 LOGG CARN 75 2207 6 SPS RBT 1 11 73.727 4.901 1.478 9.802 24.018 70.432 77.022 96 81 LOGG CARN 75 2207 6 SPS RBT 2 4 99.000 2.944 1.472 5.888 8.667 94.319 103.681 95 102 LOGG CARN 75 2207 8 SPS RBT 0 68 34.397 4.034 0.489 8.068 16.273 33.424 35.371 28 43 LOGG CARN 75 2207 8 SPS RBT 1 8 67.500 4.957 1.753 9.914 24.871 63.364 71.636 61 75 LOGG CARN 75 2307 TOTL SPS RBT 2 1 106.000 LOGG CARN 75 2307 TOTL SPS RBT 1 30 75.200 9.393 1.715 18.787 88.234 71.701 78.699 61 95 LOGG CARN 75 2307 TOTL SPS RBT 1 30 75.200 9.393 1.715 18.787 88.234 71.701 78.699 61 95 LOGG CARN 75 1809 2 SPS RBT 1 30 75.200 9.393 1.715 18.787 88.234 71.701 78.699 61 95 LOGG CARN 75 1809 2 SPS RBT 1 30 75.200 9.393 1.715 18.787 88.234 71.701 78.699 61 95 LOGG CARN 75 1809 2 SPS RBT 1 30 75.200 9.393 1.715 18.787 88.234 71.701 78.699 61 95 LOGG CARN 75 1809 2 SPS RBT 1 30 91.333 11.719 6.766 23.438 137.333 62.240 120.427 78 100 LOGG CARN 75 1809 2 SPS RBT 1 3 91.333 11.719 6.766 23.438 137.333 62.240 120.427 78 100 LOGG CARN 75 1809 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.435 122.565 102 105 LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.435 122.565 102 105 LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.435 122.565 102 105 LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.435 122.565 102 105 LOGG CARN 75 1609 3 SPS RBT 2 1 114.000 LOGG CARN 75 1609 4 SPS RBT 1 2 20.500 4.950 3.800 8.899 24.500 44.157 49.843 31 56 LOGG CARN 75 1609 4 SPS RBT 1				-		3				_							42.675	35	46	
LOGG CARN 75 2307 4 SPS RBT 2 1 111.000  LOGG CARN 75 2307 5 SPS RBT 0 57 38.386 2.226 0.295 4.482 4.986 37.796 38.976 33 45  LOGG CARN 75 2307 5 SPS RBT 1 2 95.500 0.707 0.500 1.414 0.500 89.145 101:855 95 96  LOGG CARN 75 2307 6 SPS RBT 2 1 102.000  LOGG CARN 75 2207 6 SPS RBT 0 58 34.362 2.894 0.380 5.788 8.375 33.602 35.122 31 41.  LOGG CARN 75 2207 6 SPS RBT 1 11 73.727 4.901 1.478 9.802 24.018 70.432 77.022 96 81  LOGG CARN 75 2207 6 SPS RBT 2 4 99.000 2.944 1.472 5.888 8.667 94.319 103.681 98 102  LOGG CARN 75 2207 8 SPS RBT 0 68 34.397 4.034 0.489 8.068 16.273 33.424 35.371 28 43  LOGG CARN 75 2207 8 SPS RBT 1 8 67.500 4.957 1.753 9.914 24.571 63.364 71.636 61 75  LOGG CARN 75 2307 TOTL SPS RBT 1 1 106.000  LOGG CARN 75 2307 TOTL SPS RBT 1 30 75.200 9.393 1.715 18.787 88.234 71.701 76.699 61 95  LOGG CARN 75 1809 2 SPS RBT 0 19 55.789 3.293 0.755 6.585 10.842 74.203 57.376 50 62  LOGG CARN 75 1809 2 SPS RBT 1 3 91.333 11.719 6.766 23.438 137.333 62.240 120.427 78 100  LOGG CARN 75 1609 3 SPS RBT 1 2 111.000  LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.435 122.565 102 105  LOGG CARN 75 1609 3 SPS RBT 2 1 110.000  LOGG CARN 75 1609 3 SPS RBT 2 2 112.000 4.243 3.000 8.485 18.000 73.870 150.130 109 115  LOGG CARN 75 1609 3 SPS RBT 2 1 114.000  LOGG CARN 75 1609 3 SPS RBT 0 26 47.000 7.037 1.380 14.074 49.520 44.157 49.843 31 56  LOGG CARN 75 1609 3 SPS RBT 0 26 47.000 7.037 1.380 14.074 49.520 44.157 49.843 31 56  LOGG CARN 75 1609 3 SPS RBT 0 26 47.000 7.037 1.380 14.074 49.520 44.157 49.843 31 56  LOGG CARN 75 1609 4 SPS RBT 0 26 47.000 7.037 1.380 14.074 49.520 44.157 49.843 31 56  LOGG CARN 75 1609 4 SPS RBT 0 26 47.000 7.037 1.380 14.074 49.520 44.157 49.843 31 56  LOGG CARN 75 1609 4 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.435 122.565 102 105				-		. 4			-							37.769	38.776	. 35	42	
LOGG CARN 75 2307 5 SPS RBT 1 2 95.500 0.707 0.500 1.414 0.500 89.145 101:855 95 96   LOGG CARN 75 2307 5 SPS RBT 1 2 95.500 0.707 0.500 1.414 0.500 89.145 101:855 95 96   LOGG CARN 75 2307 5 SPS RBT 2 1 102.000   LOGG CARN 75 2207 6 SPS RBT 1 11 73.727 4.901 1.478 9.802 24.018 70.432 77.022 66 81   LOGG CARN 75 2207 6 SPS RBT 1 11 73.727 4.901 1.478 9.802 24.018 70.432 77.022 66 81   LOGG CARN 75 2207 6 SPS RBT 2 4 99.000 2.944 1.472 5.888 8.667 94.319 103.681 95 102   LOGG CARN 75 2207 8 SPS RBT 2 4 99.000 2.944 1.472 5.888 8.667 94.319 103.681 95 102   LOGG CARN 75 2207 8 SPS RBT 1 8 67.500 4.957 1.753 9.914 24.571 63.364 71.636 61 75   LOGG CARN 75 2207 8 SPS RBT 1 8 67.500 4.957 1.753 9.914 24.571 63.364 71.636 61 75   LOGG CARN 75 2307 TOTL SPS RBT 0 261 36.835 3.882 0.240 7.764 15.069 36.359 37.311 28 46   LOGG CARN 75 2307 TOTL SPS RBT 0 75.200 9.393 1.715 18.787 88.234 71.701 78.699 61 95   LOGG CARN 75 1809 2 SPS RBT 1 3 97.5200 9.393 1.715 18.787 88.234 71.701 78.699 61 95   LOGG CARN 75 1809 2 SPS RBT 1 3 91.333 11.719 6.766 23.438 137.333 62.240 120.427 78 100   LOGG CARN 75 1809 2 SPS RBT 1 3 91.333 11.719 6.766 23.438 137.333 62.240 120.427 78 100   LOGG CARN 75 1609 3 SPS RBT 0 26 47.000 7.037 1.380 14.074 49.520 44.157 49.843 31 56   LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.495 122.565 102 105   LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.495 122.565 102 105   LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.495 122.565 102 105   LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.495 122.565 102 105   LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.495 122.565 102 105   LOGG CARN 75 1609 3 SPS RBT 1 2 103.500 2.121 1.500 4.243 4.500 84.495 122.565 102 105   LOGG CARN 75 1609 3 SPS RBT 1 2 90.500 4.950 3.500 8.899 24.500 46.015 134.985 87 94 1006 1006 1006 1006 1006 1006 1006 100						. 4						9.078	3.210	18.156	82.411	70.550	85.700	67	95	
LOGG CARN 75 2307 5 SPS RBT 1 2 95.500 0.707 0.500 1.414 0.500 89.145 101:855 95 96   LOGG CARN 75 2307 5 SPS RBT 2 1 102.000						-											4 4			
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	ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
	LOGG	CARN	75	1709	5	SPS	RBT	1	2	78.000	5.657	4.000	11.314	32.000	27.160	128.840	74	. 82	
	LOGG	CARN	75	1709	. 5	SPS	RBT	2	1	111.000								5.5	
		CARN		1709	6		RBT	0	. 51	44.490		0.596	8.508	18.095	43.293	45.687		53	
		CARN	75	1709	6		RBT	. 1	14		9:565	2.556	19.131	91.495	75.050	86.093		96	
		CARN		1709	6	SPS	RBT	2	3	110.333	5.859	3.383	11.719	34.333	95.787	124.880		117	
		CARN		1809	8		RBT	. 0	60	44.350		0.719	11.144	31.045	42.911	45.789	: 34	56	٠
		CARN		- 1809		SPS	RBT	1	15	81.933	8.956		17.912	80.210	76.985	86.882	71	104	
		CARN CARN	75		TOTL	SPS	RBT	1	274	48.055		1.668	11.552	108.516	47.364 80.528	87.267		105	
		CARN		1709		SPS	RBT	2	. 8	111.375	3.739	1.322	7.479	13.982	108.255	114.495		117	
		CARN	. 75		TOTL		CT	1	22	73.727	9.367	1.997	18.733	87.732	69.574	77.881	63	93	
		CARN	75		TOTL	SPS	CT	2	. 8	118.875		4 . 142	23.432	137.268	109.099	128.651		132	
		CARN	. 75		TOTL		CT	3	4	153.750		8.797	35: 190	309.583	125.774	181.726		178	
	LOGG	CARN .	75	1709	TOTL	SPS	CT	0	2	57.500	0.707	0.500	1.414	0.500	51.145	63.855	57	58	
	LOGG	CARN	75	1709	TOTL	SPS	CT	1	10	80.900	6.173	1.952	12.345	38.100	76.489	85.311	. 72	90	
		CARN	75	1709	TOTL	SPS	. CT	2	7	.125.000	14.503	5.482	29.006	210.333	-111.570	138.430	100	139	
			75		TOTL		· · CT	. 3	5	167.400	33.590	15.022	67.180	1128:300	125.639	209.161	140	216	
		CARN	75	2205	2		ALUT	-	159	56.013		0.759	19.148	91.658	54.509	57.516	. 39	94	
		CARN	75		TOTL	PS	ALUT		180	57.922		0.829	22.249	123.759	56.280	59.564	39	95	
		CARN	75	2107	_	SPS	ALUT	-	173	63.295		0.862	22.682	128.616	61.588	65.002	43	105	
		CARN	. 75	2407	3	SPS	ALUT	-	14		11.932	3.189	23.865	142.379	76.183	89,960	63	101	
		CARN	75	2307	5	SPS	ALUT		11	73.091		2.043	13.549	45.891	68.536	77.646	62	87	
		CARN	75	2207	6	SPS	ALUT	1 -	. 14	82.083 85.000		2.547	24.952 19.151	155.645	76.812	87.355 90.528	65	110	
		CARN	75	2207	. 8	SPS	ALUT	_	15	78.933		2.744	21.253	91.692	73.062	84.805	61	97	
		CARN		2307		SPS	ALUT	-	251		13.895	0.877	27.791	193.083	67:016	70.490	43	110	
		CARN		1809	2	SPS	ALUT	-	121	67.240		0.965	21.224	112.617	65.329	69.150		105	
		CARN	. 75	1609	3	SPS	ALUT		18			2.976	25.256	159.467	78.664	91.225	56	108	
	LOGG	CARN	75	1609	. 4		ALUT	-	. 8		8.912	- 3:151	17.825	79.429	83.064	97.936		105	
ċ	LOGG	CARN	75	1709	. 5		ALUT	-	24	86.625		2.456	24.064	144.766	81.541.	91.709	51	106	
:	LOGG	CARN	75	1709	6	SPS	ALUT	-	. 14	90.143		2.844	21.280	113.209	84.001	96.285	73	111	
		CARN	75	1809	. 8	SPS	ALUT		35	81.543	13.028	2.202	26.056	169.726	77.073	86,013	62	123	
		CARN		1709		SPS	ALUT		220	75.250	14.395	0.971	28.790	207.220	73.328	77.172	51	123	
•		CARN	75	2107	. 2		ASPR		. 11	81.727		5.617	37.257	347.018	69.202	94.252	61	124	
		CARN	75	1809	. 2	SPS	ASPR		20	85.500		5.157	46.128	531.947	74.721	96.279	57	157	
		CARN		1806		S	CT	1	.20	65.350		3.238	28.963	209.713	58.582	72.118	48	88	
		CARN	75		UPER	S	CT	2	-16	110.500		3.536	28.284	200.000	102.969	118.031	-	135	
		CARN	· 75		UPER	. 5	CT	3	3	147.000	5.292	3.055	10.583	28.000	133.863	160.137		153	
		CARN	75		UPER		CT	0	18	74.688	5.724	1.431	8.295	17.203	36.382 71.640	40.507 77.735	32 65	83	
		CARN	.75		UPER	S	CT	2	- 23			2.887	11.448	191.719	103.937	115.889	92	135	
		CARN	75		UPER	S	CT	3	23	158.500		8.500	24.042	144.500	50.465	266.535		167	
		CARN	. 75		2100	S	CT	1	14	74.071	5.824	1.556	11.648	33.918	70.709	77.433		: 80	
	-	CARN		1706		\$	CT	2	3	95.667	8.327	4.807	16.653	69.333	74.995	116.338	89	105	
*		CARN	75		2100	S	CT	o	- 31	45.935	4.795	0.861	9.591	22.996	44.178	47.692	36	57	
	LOGG	CARN	75 :	1809	2100	S	· CT	.1	24	90.875	5.893	1.203	11.785	34.723	88.385	93.365	.78	101	
	LOGG	CARN	75	1809	2100	. 5	CT	2	. 6	115.500	10.035	4.097	20.070	100.700	104.971	126.029	105	133	
:		CARN	75		1600	. 5	COHO	. 0 .	153	42.752	3.163	0.256	6.326	10.004	42.245	43.258	37	51	
		CARN		1706		. 5	COHO	1 .	17	66.412	5.948		11.897	35.382	63.353	69.470	54	.76	
		CARN	75 . 1		1600	PS	COHO	. 0	78	47.577	4.929		9.859	24.299	46.466	48.688	. 40	61	
	LUGG	CARN	. 75	0308	1600	PS	COHO	1	. 2	73.000	1,414	1.000	2.828	2.000	60.290	85.710	72	74	
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	ID :	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I. MAX	MIN	MAX	
	ngg	CARN	75	1709	1600	s	COHO	0	176	52.023	6.484	0.489	12.968	42.045	51.055	52.990	40	. 70	
		CARN	75		1600	Š	COHO	1	16	79.313	4.332	1.083	8.663	18.763	77.006	81.619	71	88	
		CARN-	75	1706		Š	CT	1 .	7	66.429	4.962		9.924	24.619	61.834	71:023	60	73	
		CARN	75		1600	Š	CT	0	5	43.800	6.221		.12.442	38.700	36.066	51.534	. 33	48	
		CARN	75		1600	S	CT	1	4	76.000	4.690	2.345	9.381	22.000	68.542	83.458	72	81	
		CARN	75		1600	5	CT	2	1	107.000						16 v 1	*		
		CARN	75		USEL	S	COHO	ō	39	58.564	6:261	1.003	12.522	39.200	56.539	60.589	49	73	•
		CARN	75		USEL	5	COHO	1	1	84.000					4				*
		CARN	75		USEL	5	CT	0	12	39.333	3.822	1.103	7.644	14.606	36,906	41.760	33	44	
		CARN	75		USEL	S	CT	1 .	13	84.846	8.214	2.278	16.429	67.474	79.880	89.813	76	103	*
		CARN	75		USEL	S	CT	2	7	119.429	7.254	2.742	14.508	52.619	112.711	126.146	110	129	
		CARN	75		USEL	S	CT	3	1	174.000					, ,				
		CARN	75		USEL	S	ALUT		62	77.613	15.517	1.971	31.033	240.766	73.691	81.534	52	115	
		CARN	75		FRED	SPS	COHO	0	143	65.853	8.159	0.682	16.319	66.577	64.502	67.204	44.	80	
1	LOGG	CARN	75	1909	FRED	SPS	COHO	1	3	84.333	2.309	1.333	4.619	5,333	78.600	90.067	83	87	
-	LOGG	CARN	75	1909	FRED	SPS	RBT	0	16	54.750	7.594	1.898	15.188	57.667	50.706	58.794	45	77	16
-	LOGG	CARN	75	1909	FRED	SPS	ALUT	- 4	88	40'.068	6.207	0.662	12.414	38.524	38.752	41.385	33	64	
-	LOGG	CARN	75	1909	FRED	SPS	ASPR	-	107	67.542	15.757	1.523	31.513	248.269	64.526	70.558	47	118	*
1	LOGG	CARN	75	1909	PACH	SPS	COHO	0	170	56.618	7.739	0.594	15.478	59.894	55.442	67.793	46	79.	
1	LOGG	CARN	75	1909	PACH	SPS	COHO	1	20	88.350	7.365	1.647	14.729	64.239.	84.908	91.792		103	1
-	LOGG	CARN	75	1909	PACH	SPS	RBT	. 0	46	49.478	4.441	0.655	8.882	19.722	48.162	50.794	41	59	
1	LOGG	CARN .	75	1909	PACH	SPS	RBT	1	1	85.000			. 1.						
- 1	LOGG	CARN.	75	1909	PACH	SPS	RBT	2	1.	141.000			* 1						
1	LOGG	CARN	75	1909	PACH	SPS	ALUT		9	70.556	9.964	3.321	19.928	99.278	62.883	78,228	60	. 88	
1	LOGG	CARN .	75.	1909	PACH	SPS	ASPR	-	46	. 88.609	16.642	. 2.454	33.284	276.955	83.677	.93.541	63.	140	
1	LOGG	CARN .	75	2009	RITH	. 5	CT	0	112	56.741	7.195	0.680	14.389	51.761	55.395	58:087		74	*
-	LOGG	CARN .	75 .	2009	RITH	S	CT	1	22	95.364	8.921	1.902	17.841	79.576	91.408	99.320	80	1.15	
-	LOGG	CARN	75 .	2009	RITH	5.	. CT	2	8	133.125	12.922	4.569	25.844	166.982	122.343	143.907	119	153	
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		CARN.	76		FENC	TR	CHUM	0	31	43.032	0.752	0.135	1.504	0.566	42.757	43.308	42	45	
		CARN	76		FENC	TR	CHUM	0.	49	43.204	1.000	0.143	1.999	0.999	42.917	43.491	40	45	
		CARN	76		FENC	TR	CHUM.	0	57	42.316	0.985	0.130	1.970	0.970	42.055	42.577	40	44	
		CARN:	76		FENC	TR	CHUM	0	50	42.520	1.015	0.144	2.030	1.030	42.231	42.809	41	45	
		CARN	76		FENC	TR	CHUM	0	50	42.500	0.909	0.129	1.818	0.827	42.242	42.758	40	45	
		CARN	76		FENC	TR	COHO	1	9	69.444	5.341	1.780	10.682	28.528	65.332	73.557	62	78	
		CARN	76.		FENC	TR	COHO	1	53	69.453	4.967	0.682	9.935	24.676	68.088	70.817	60.	82	
		CARN	76		FENC	TR	COHO	2	6	81.500	3.450	1.408	6.899	11.900	77.681	85.119	76	86	
		CARN.	76		FENC	TR	COHO	1	121	69.091	4.391	0.399	8.783	19.283	68.300	69.881	60	100	
		CARN	76		FENC	TR	COHO	2	. 29	85.414	6.248	1.160	12.496	39.037	83.035	87.792	75	85	
		CARN	76		FENC	TR	COHO .	1	263	72.186	5.893	0.363	11.786	34.725	71.467	72.906	76		٠.
- 2		CARN	76		FENC	TR	COHO	2	96	89.323	7.571	0.773	15.141	57.316	87.793	90.853		122	*
		CARN.	76		FENC	TR	COHO	1	220	71.427	6.066	0.409	12.132	36.794	70.618	72.237	60	84	
		CARN	76		FENC	TR	COHO	2	141	91.220	7.787	0.656	15.573	60.630	89.921	92:518	81	119	
		CARN	76		FENC	TR	COHO	1	215	72.493	6.018	0.410	12.036	36.214	71.680	. 73.306	60	84	
		CARN	. 76		FENC	TR	COHO	2	189	92.254	8.200	0.596	16.399	67.233	91.073	93.435	81	120	
		CARN	76		FENC	TR	COHO	1	220	74.705	7.324	0.494	14.647	53.634	73.727	75.682	60	90	
		CARN	76		FENC	TR	COHO	2	371	92.658	9.340	0.485	18.680	87,231	91.698	93.618	76	124	
		CARN	76		FENC	TR	COHO	1	187	77.380	8.183	0.598	16.365	66.957	76.195	78.564	60	90	
		CARN	76		FENC	TR	COHO	2	171	95.883	8.372	0.640	16.744	70.092	94.615	97, 151	78	125	
		CARN	76		FENC	TR	COHO	1	290	73.831	8.890	0.522	17.781	79.041	72.797	74.865	60	90	
1	LUGG	CARN.:	. 76 .	2005	FENC	TR	COHO	. 2	116	95.345	8.670	0.805	17.340	75.167	93.751	96.939	78	118	
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10	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	s	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
LOC	G CARN	76	0206	FENC	TR	СОНО	1	49	73.000	10.817	1.545	21.633	117.000	69.894	76.106	. 60	98	1
·F.00	G CARN	76	0206	FENC	TR	COHO	2	11	103:364	8.686	2.619	17.373	75.455	97.523	109.204	85	115	
	G CARN	76	0906	FENC	TR	COHO	. 1	14	73.643	9.353	2:500	18.706	87.478	6B.244	79.042	61	85	
LOG	G CARN	76	0906	FENC	TR	COHO	2	1	94.000									
LOC	G CARN	76	1606	FENC	TR	COHO	1	24	69.542	8.915	1.820	17.830	79.476	65.775	73.309	60	90	٠,
LOG	G CARN	.76	1606	FENC	TR	COHO	2	5	107.200	15.007	6.711	30.013	225.200	88.543	125.857	95	130	
LDG	G CARN	76	0304	FENC	TR	COHO	0	- 54	39.574	0.882	0.120	1.763	0.777	39.334	39.814	38	42	
LOC	G CARN	76	1404	FENC	TR	COHO	0.	66	37.970	1:324	0.163	2.648	1.753	37.645	38.294	35	40	
LOC	G CARN	. 76	2404	FENC	TR	COHO	0	50	38.540	1.073	0:152	2.146	1.151	38.235	38.845	36.	41	
LOG	G CARN	76	0205	FENC	TR	COHO	0	53	38.434	0.991	0.136	1.981	0.981	38.162	38.706	36	40	
LOG	G CARN	76	1105	FENC	· TR	COHO	: 0	52	37.577	1.226	0.170	2.453	1.504	37.237	37.917	35	41	
LOG	G CARN	76	2105	FENC	TR	COHO	. 0	58	39.138	1.304	0.171	2.608	1.700	38.796	39.480	. 36	43	
LOG	G CARN	76	0406	FENC	TR	COHO	0	34	39.500	2.608	0.447	5.217	6.803	38.592	40.408	32	46	
LOG	G CARN	76	1306	FENC	TR	COHO	0	-45	37.422	1.631	0.243	3.261	2.659	35.934	37.911	35	44	
LOC	G CARN	76	2206	FENC	TR	COHO	0	53	40.943	3.739	0.514	7:477	13.978	39.916	41.970	35	50	
LOG	G CARN	76	0407	FENC	TR	COHO	0	64	42.016	3.037	0.380	6.074	9.222	41.260	42.771	34	49	
LOG	G CARN	76	1407	FENC	TR	COHO	0	51	43.804	2.522	0.353	5.044	.6.361	43.094	44.514	-38	50	
LOG	G CARN	76	2907	FENC	TR	COHO	0	50	43.420	2.800	0.396	5.600	7.840	42.624	44.216	38	50	
LOG	G CARN	76	1408	FENC	TR	COHO	0	54	44:056	2.716	0.370	5.431	7.374	43.316	44.795	37	50	
LOG	G CARN	76	2005	2	P.S	COHO	0	111	39.910	2.287	0.217	4.573	5.228	39.480	40.340	34	49	
	G CARN	76	2005	2	. PS	COHO	1	32	65.406	6.544	1:157	13.089	42.830	63.058	67:755	51	78	
LOG	G CARN	76	2005	2	PS	COHO	2	. 2	84.500	6.364	4.500	12.728	40.500	27.305	141.695	80	89	
LOG	G CARN	76	1905	3	PS	COHO	0	113	39.858	1.875	0:176	3.750	3.515	39.509	40.208	36	46	
LOG	G. CARN	76	1905	3	PS	COHO	1	13	61.462	5.925	1.643	11.849	35, 103	57.879	65.044	. 56	75	
LOG	G CARN	.76	1905	4	PS	COHO	. 0	113	39.690	2.101	0.198	4.201	4:412	39.299	40.082	36	-49	
	G CARN	76	1905	4	PS	COHO	1	23	60.522	4.273	0.891	8.547	18.261	58.677	62.366	55	72	
LOG	G CARN	76	1905	4	PS	COHO	2	1	80.000							,		
LOG	G CARN	76	1905	5	PS	COHO	0	105	40.038	1.467	0.143	2.934	2.152	39.755	40.322	37	45	
LOG	G CARN	.76 .	1905	5	PS	COHO	1	21	63.286	6.886	1.503	13.772	47.414	60.145	66.426	. 53	. 75	
LOG	G CARN	76	1805	6	PS	COHO	0	98	40.214	1.212	0.122	2.424	1.469	39.972	40.457	: 38	44	
LOG	G CARN	76	1805	6	PS	COHD	1	10	62.400	4.248	1.343	8.496	18.044	59.364	65.436	54	68	
LOG	G CARN	76	1805	. 6	PS	COHO	2	1	86.000				,					
LOG	G CARN	76	1805	8	PS	COHO	0	109	39.872	1.886	0.181	3.772	3.557	. 39.514	40:229	32	. 44	
LOG	G CARN	76	1805	8	PS	COHO	1	5	59.800	7.085	3.169	14.170	50.200	50.991	68.609	54	72	
	G CARN	76	1905	TOTL	PS	COHO	1	103	62.825	6.159	0.607	12.317	37.930	61.624	64.027	51	78	
	G CARN	76	1905	TOTL	PS '	COHO	2	. 4	83:750	4.500	2.250	9.000	20.250	76.595	90.905	80	89	
	G CARN	76	2106	2	PS	COHO	. 0	121	42.636	3.109	0.283	6.218	9.667	42.077	43.196	34	51	
	GCARN	76	1507	2	SPS	COHO	0	185	46.854	4.619	0.340	9.237	21.332	46.182	47.526	37	- 59	
	G CARN	76	1507	2	SPS	COHO	1	36	72.833	6.980	1.163	13.959	48.714	70.472	75.195	61	91	
	G CARN	76	1507	. 3	SPS	COHO	0	202	45.490	4.355	0.306	8.710	18.968	44.883	46.097	36	- 58	
	G CARN	76	1507	3	SPS	COHO	1	34	69.618	6.629	1.137	13.257	43.940	67.310	71.925	. 60	85	
	G CARN	76	1407	4	SPS	COHO	0	249	44.345	4.405	0.279	8.810	19.404	43.793	44.898	36	59	
	G CARN	76	1407	. 4	SPS	COHO	1	. 6	70.833	4.622	1.887	9.245	21.367	65.984	75.683	64	77	
	G CARN	76	1407	5	SPS	COHO	0	171	42.000	3.850	0.294	7.700	14.824	41.417	42.583	36	56	
	G CARN	76	1407	5	SPS	COHO	. 1	18	68.222	5.857	1.380	11.713	34.301	65.310	71.135	60	- 82	
	G CARN	76	1307	6	SPS	COHO	0 .	114	44.658	3.842	0.360	7.683	14.758	43.945	45.370	36	56	
	G CARN	76	1307	6	SPS	COHO	1	24	70.375	6.233	1.272	12.466	38.853	67.741	73.009	60	86	
	G CARN	76	1307	8	SPS	COHO	0	162	43.000	4.684	0.368	9.368	21.938	42.271	43.729	. 35	-58	
LOG	G CARN	76	1307	8	SPS	COHO	1	. 5	76.400	6.348	2.839	12.696	40.300	68.508	84.292	69	86	
LOG	GCARN	76	1407	TOTL	SPS	COHO	1	121	70.868	6.689	0.608	13.379	44.749	69.664	72.072	60	91	
LOG	G CARN	. 76	1608	. 2	PS	COHO	. 0		48.403		0.555	9.415	22.159	47.299	49.507	40	59	
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**	CTREAM	VEAD	-		-	****			VDAD		CVDAD	25	S*S	C.I.MIN	C.I.MAX		MAX	
10	STREAM	TEAR	DATE	LOC	GEAR	SPEC	AGE	N	- XBAR	S	SXBAR	25	2-2	C.I.MIN	C.I.MAX	MYIA	MAA	
				_			_					40 570			FO. FO4	40		
	CARN	76	2009	2		COHO	0	217	52.659	6.287	0.427	12.573	39.522	51.814	53.504		68	
	CARN	76	2009	2		COHO	1	-	78.531	8.424	1.489	16.848		75.508	81.554		104	
LOGG	CARN	76	2109	3	SPS	COHO	0	155	50.071	5.407	0.434	10.814	29.235	49.211	50.931	39	62	
LOGG	CARN	76	2109	. 3	SPS	COHO	. 1	26	74:308	6.881	1.349	13.761	47.342	71.528	77.087	64	91	
LOGG	CARN	76 :	2109	. 4	SPS	COHO	. 0	209	47.478	5.893	0:408	11.787	34.732	46.671	48.286	36	63	
LOGG	CARN.	76	2109	: 4	SPS	COHO	1	20	73.150	9.354	2.092	18.709	87:503	68.778	77.522	. 64	99	
	CARN	76	2209	5	SPS	COHO	. 0		46.017	6.610	0:495	13.220	43.689	45.036	46.998		64	
	CARN	76	2209	. 5		COHO	1	17	74.412	7.442	1.805	14.884	55.382	70.585	. 78 . 238		90	
	CARN	76	2309	6	SPS	COHO	0	2.3	49.773	5.206	0.425	10.412	27.103	48.932	50.615		63	
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	CARN	76.	2309	6	SPS	COHO	1	22	73.591	5.820	1.241	11.640	33.872	71.010	76.172		88	
	CARN	76	2309	8	SPS	COHO	.0	124	49.960	5.717	0.513	11.435	32.689	48.943	50.976		65	
LUGG	CARN	76	2309	8	SPS	COHO	1	10	75.300	9.007	2.848	18.014	81.122	68.863	81.737	. 66	95	
LOGG	CARN	76	2209	TOTL	SPS	COHO	1.	125	74.992	7.513	0:672	15.026	56.443	73.661	76.323	64	89	
LOGG	CARN	76	1710	2	PS	COHO	0	70	53.129	6.134	0.733	12.267	37.621	51.670	54.587	42	70	
LOGG	CARN	76	1710	4	PS	COHO	. 0	- 33	48.121	6.528	1.136	13.055	42.610	45.814	50.428	37	66	
LOGG	CARN	76	1710	8	PS	COHO	0	. 49	49.143	4.822	0.689	9.644	23.250	47.758	50.527	39	63	
	CARN	76	1710	248	PS	COHO	1	16	81.938	8.683	2.171	17.366	75.396	77.314	86.561	72	103	
	CARN	76	1905		PS	RBT	1	68	59.221	6.103	0.740	12.206	37.249	57.748	60.693		74	
	CARN	76		TOTL	PS			4									91	
		76				RBT	2		83.500	5.196	2.598	10.392	27.000	75.238	.91.762			
	CARN		1507	. 2	SPS	RBT		118	33.610	1.710	0.157	3.420	2:924	33.299	33.922		38	
	CARN	76	1307	. 2		RBT	1	7	78.571	4.541	1.716	9.082	20.619	74.367	82.776		86	
	CARN	76	1507	2		RBT	2	. 2	112.000		12.000	33.941	288.000	-40.520	264.520		124	
LOGG	CARN	76	1507	3	SPS	RBT	0	98	37.765	1.849	0.187	3.698	3.419	37.395	38.135	. 33	43	
LOGG	CARN	76	1507	3	SPS	RBT	1	3	88.667	2.517	1.453	5.033	6.333	82,419	94.914	86	91	
LOGG	CARN	76 :	1507	. 3	SPS	RBT	2	. 2	106.000	5.657	4.000	11.314	32.000	55.160	156.840	102	110	
LOGG	CARN	76	1507	3	SPS	RBT	. 3	1	135.000									
LOGG	CARN		1407	4	SPS	RBT	0.	30	34,000	2.435	0.445	4.871	5.931	33.093	34.907	27	38	
	CARN		1407	4	SPS	RBT	1	12	77.000	6.325	1.826	12.649	40.000	72.983	81.017		88	
-	CARN		1407	. 5	SPS	RBT		127	33.110									
							0			1.311	0.116	2.621	1.718	32.880	33.341		36	
	CARN	76	1407	5	SPS	RBT	. 1	6	73.833	1.941	0.792	3.882	3.767	71.797	75.870		76	
	CARN.	76	1307	6	SPS	RBT	. 1	16	78.188	7.808	1.952	15.616	60.963	74.030	82.345	.68	90	
LOGG	CARN	76	1307	6	SPS	RBT	2	1	112.000									
LOGG	CARN	76	1307	8	SPS	RBT	1	8	72.500	4.721	1.669	9.442	22.286	68.561	76.439	- 66	79	
LOGG	CARN.	76	1307	8	SPS	RBT	. 2	1	91.000									
LOGG	CARN	76	1407	TOTL	SPS	RBT	1	51	76.706	6.388	0.895	12.777	40.812	74.908	78.504	66	90	*
LOGG	CARN	76	1407	TOTL	SPS	RBT	2	6	106.500		4.660	22.830	130.300	94.524	118,476		124	
LDGG	CARN	76	1407	TOTL	SPS	RBT	3	1	135.000		41,000				130/410	•		
	CARN	76	1608	2	PS	RBT	. 0	49	40.592	3.741	0.534	7.482	13.997	39.518	41.666	34	54	
	CARN	76	2009	2	SPS	RBT	0	82	43.902	3.974						-	57	
	CARN	76	2009	2	SPS	~ ~ ~ ~	_			3.8/4	0.439	7.948	15.793	43.029	44.776	34	01	
						RBT	1	1	93.000									
	CARN	76	2009	2	SPS	RBT	2	1	142.000				4		*			
	CARN	76	2109	3	SPS	RBT	0	31	53.355	4.340	0.780	8.680	18.837	51.765	54.945	42	65	
	CARN	76	2109	3	SPS	RBT	1	1	98.000									r
	CARN	76	2109	4	SPS	RBT	0	51	48.157	6.476	0.907	12,951	41.935	46.334	49.979	35	65	
LDGG	CARN	76	2109	4	SPS	RBT	1	4	82.750	6.994	3.497	13.988	48.917	71.629	93.871	76	92	
LOGG	CARN	76	2209	5	SPS	RBT	0	78	44.308	4.713	0.534	9.427	22.216	43.246	45.370	36	60	
LOGG	CARN	76	2209	. 5	SPS	RBT	1	2	81.500	6.364	4.500	12.728	40.500	24.305	138.695	77	86	
	CARN	76	2209	5	SPS	RBT	2	1	129.000	0.004	4.000		40.000	24.000	.00.000			
	CARN	76	2309	6	SPS	RBT	ō	2	43.000	16.971	12.000	33.941	288.000	-109.520	195.520	31	55	
	CARN	76	2309	. 6	SPS	RBT	1	19	84.053									
	CARN	76	2309	6	SPS			-		8.155	1.871	16.309	66.497	80.124	87.961		96	
2000	CARIN	10	2309	6	262	RBT	2	. 3	106.000	8.000	4.619	16.000	64.000	86.139	125.861	98	114	

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ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX		
LOGG	CARN	76	2309	8	SPS	RBT	0	11	53.182	5.964	1.798	11.927	35.564	49.172	57.192	39	58
LOGG	CARN	76	2309	8	SPS	RBT	1.	8	81.375	3.889	. 1.375	7.778	15.125	78.130	84.620	77	88
LOGG	CARN	76 .	2209	TOTL	SPS	RBT	1.	.34	83.382	7.032	1.206	14.065	49.455	80.934	85.831	69	96
LOGG	CARN	76	2209	TOTL	SPS	RBT	2	. 6	114.667	17.614	7.191	35.229	310.267	96.186	133.148	98	142
LOGG	CARN	. 76	1407	TOTL	SPS	CT	1	- 5	74.200	4.658	2.083	9.317	21.700	68.409	79.991	69	81
LOGG	CARN	76	1407	TOTL	SPS	CT	2	4	103.750	8.617	4.308	17.234	74,250	90.049	117.451	. 95	113
LOGG	CARN	76	1407	TOTL	SPS	CT	3	1	128.000					:			
LOGG	CARN	76	1407	TOTL	SPS	CT	2	3	139.667	4.041	2.333	.8.083	16:333	129.633	149.700	136	144
LOGG	CARN	76	1407	TOTL	SPS	CT	. 3	. 3	193.000	42.755	24.685	85.510	1828.000	86.856	299.144	145	227
LOGG	CARN	76	2209	TOTL	SPS	. CT	0	1	77.000				. ,		. ***		
LOGG	CARN	76	2209	TOTL	SPS	CT	1	2	103.500	9.192	6.500	18.385	84.500	20.885	186.115	97	110
LOGG	CARN	.76	2209	TOTL	SPS	CT	2	8	131.375	15.784	5.580	31.567	249.125	118.205	144.545	118	163
LOGG	CARN	76	2209	TOTL	SPS	CT	3	2	185.500	21.920	. 15.500	43.841	480.500	-11.505	382.505	170	201
LOGG	CARN	76	2209	TOTL	SPS	CT	4	1	201.000								
LOGG	CARN	76	2005	. 2	. PS	ALUT	-	79	61.278	8.669	0.975	17.338	75.152	59.338	63:219	43	. 92
LOGG	CARN	76.	1905	TOTL	PS	ALUT	-	108	64.815	.11.086	-1.067	22.172	122.900	62.703	66.927	43	92
LOGG	CARN	76	1507	2	SPS	ALUT	-	118	66.814	10.382	0.956	20.765	107.794	64.921	68.706	43	96
LOGG	CARN	76	1507	A: 3	SPS	ALUT	-	. 13	86.231	7.282	2.020	14.564	53.026	81.828	. 90.634	.66	95
LOGG	CARN	76	1407	4	SPS	ALUT		. 9	81.556	17.133	5.711	34.265	293.528	68.363	94.748	61	110
LOGG	CARN	76	1407	5	SPS	ALUT	-	12	92.333	10.482	3.026	20.965	109.879	85.676	98.990	71	108
LOGG	CARN	76	1307	. 6	SPS	ALUT	•	9	91.444	4.640	1.547	9.280	21:528	87.872	95.017	. 83	97
LOGG	CARN	76	.1307	8	SPS	ALUT		23	86.870	10.805	2.253	21.611	116.755	82.206	91.533	68	108
LOGG	CARN	76	1407	TOTL	SPS	ALUT	-	147		11.678	0.963	23.355	136.367	75.780	79.594	61	108
LOGG	CARN	76	2009	2	SPS	ALUT	-	87	68.483	9:842	1.055	19.683	96.857	66.383	70.582	47	. 97
LOGG	CARN	76.	2109	3	SPS	ALUT	-	. 7	87.857	10.156	3.839	20.312	103.143	78.453	97.262	. 74	98
LOGG	CARN	76	2109	4	SPS	ALUT	-	. 7		12.191	4.608	24.382	148.619	76,140	98.718	70	103
	CARN	76	2209	5	SPS	ALUT	-	5		13.480	6.028	26.959	181.700	76.441	109.959	74	109
	CARN	76	2309	6	SPS	ALUT	-	11	89.727	9.572	. 2.886	19.143	91.618	83.292	96.163	72	109
	CARN	76	2309	. 8	SPS	ALUT	-	12	85.500	5.214	1.505	10.427	27. 182	82.189	88.811	76	93
	CARN	76	2209	TOTL	SPS	ALUT	-	129	74.969		1.187	26.966	181.796	72.618	77.320	47	109
	CARN	76	1507	2	SPS	ASPR	-	11	89.727		4.036	26.774	179.218	80.726	98.728	70	107
	CARN	76	2009	2	SPS.	ASPR		12	102.500		4.844	33.559	281.545	91.844	113.156	83	138
	CARN	76	2206		S	CT	1	10	59.300	8.932	2.825	17.865	79.789	52.916	65.684	46	75
	CARN	76	2206		S	CT	2	10	97.600	9.991	3,159	19.982	99.822	90.460	104.740	84	115
	CARN	76	2206		Š	CT	3	4	127.500		6.850	27.398	187.667	105.718	149.282		148
	CARN	76	2409		S	CT	o	. 39	38.564	4.778	0.765	9.556	22.831	37.019	40.110	29	47
	CARN .	76	2409		. s	CT	1	23	83.957		2.134	20.472	104.771	79.539	88.375	63	100
	CARN	76	2409		. s	CT	2	11	116.182		3.343	22.178	122.964	108.726	123.638		144
	CARN	76	2409		S	CT	3	2	164.000		13.000	36.770	338.000	-1.230		151	177
	CARN	76 .	2306		S	CT	ŏ	2	24.000	2.828	2.000	5.657	8.000	-1.420	49.420	22	26
	CARN	76	2306		S	CT	1	15	72.400	6.390	1.650	12.779	40.829	68.869	75.931	61	84
	CARN	76	2306		S	CT	2	5	103.800		5.894	26.359	173.700	87.415	120, 186	87	120
	CARN	76	2209		S	CT	ō	26	44.731	5,738	1.125	11.476	32.925	42.413		33	54
	CARN	76	2209		Š	CT	1	20	86.000	8.379	1.874	16.758	70.211	82.084	89.916	74	100
	CARN	76	2209		Š	CT	2	5	123.600		8.430	37.699	355.300	100.165		103	144
	CARN	76	2306		Š	COHO	ō	192	41.938	2.866	0.207	5.733	8.216	41.528	42.347	35	52
	CARN	76	2306	1600	5	COHO	1	34	60.618	9.773	1.676	19.546	95.516	57.215	64.020	. 50	80
	CARN	76	3107	1600	PS	COHO	o	74	46.122	4.569	0.531	9.138	20.875	45.065	47.179	39	57
	CARN	76	3107	1600	PS	COHO	1	13	70.615	7.194	1.995	14.388	51.756	66.266	74.965	60	. 83
	CARN	.76	2209	1600	SPS	COHO	0	111	48.982	5.951	0.565	11.903	35.418	47.864	50.100	37	64
	CARN	76 -	2209		SPS	COHO	1	15	72.333	6.218	1.606	12.437	38.667		75.769	66	: 85

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ID :	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX	WIN	MAX	
													00 440	47 000	50.444	37	69	
	CARN	76		1600	PS	COHO	0	51	48.824	5.757	0.806	11.515	33.148	47.203	70.148	48	76	
LOGG	CARN	76		.1600		CT	1	5		11.380	5.089	22.760	129.500	41.852 31.825	52.460	28	63	
LOGG	CARN	.76	2209		S	CT	0	7		11.142	4.211	22.284	124.143				109	
LOGG	CARN	76	2209	.1600	S	CT	1	3	84.000		12.503	43.313	469.000	30.236	137.764	71		
LOGG	CARN	76	2508	USEL	. 5	COHO	0	48	50.917		0.603	8.352	17.440	49.705	52.128	43	60	
LOGG	CARN .	76	2508	USEL	S	CT	1	. 3	77.000	3.606	2.082	7.211	13.000	68.049	85.951	74	81	
LOGG	CARN .	76	2508	USEL	S	CT	2	4	101.000	5.033	2.517	10.066	25.333	92.997	109.003	96	108	
LDGG	CARN .	76	2508	USEL	S	CT	3	2	157.500	13.435	9.500	26.870	180.500	36.755	278.245	148	167	
	CARN	76	2508	USEL	S	ALUT	-	68	75.882	18.184	2.205	36.367	330.643	71.494	80.270	44	113	
	CARN	76	2408	FRED	SPS	COHO	0	122	52.811	6.391	0.579	12.783	40.848	51.666	53.957	41	72	
	CARN	76		FRED	SPS	COHO	1	2	79.000	1.414	1.000	2.828	2.000	66.290	91.710	78	80	,
	CARN	76		FRED	SPS	RBT	0	5	52.800	3.493	1.562	6.986	12.200	48.458	57.142	48	. 57	
	CARN	76		FRED	SPS	ALUT	-	36	46.889	9.420	1.570	18.839	88.730	43.702	50.076	.34	73	
	CARN	76		FRED	SPS	ASPR	-	36		12.096	2.016	24.192	146.313	68.880	77.065	55	98	
	CARN	76		PACH	SPS	COHO	. 0	151	50.245	5.550	0.452	11.099	30.800	49.351	51.139	. 41	66	
		76		PACH	SPS	COHO	1	19	78.105	8.075	1.853	16.151	65.211	74.215	81.996	67	96	
	CARN			PACH	SPS	RBT	. 0	54	46.185	4.837	0.658	9.675	23.399	44.869	47.502	37	60	
	CARN	76		PACH	SPS	RBT	1	2	80.500	4.950	3.500	9.899	24.500	36.015	124.985	77 .	84	
	CARN	76			SPS		. 1	1	60.000	4.550	3.500		24.000					
	CARN	76		PACH		ALUT		77		12.416	1.415	24.832	154 . 154	55.470	61,101	45	94	
	CARN	76	2408		SPS		-		82.299	17.333	1,975	34.667	300.449	78.368	86.230	52	153	
	CARN	76		PACH	SPS	ASPR		77	47.848	7.925	1.168	15.849	62.799	45.499	50.196	33	61	
	CARN	76		RITH	S	CT.	0	46				18.149	82.348	77.480	85.758	67	95	
	CARN	76		RITH		CT	1	21	81.619		1.980	18.547	86.000	104.526	118.807		128	
	CARN.	76		RITH		CT	.2	9	111.667	9.274	3.091			88.160	189.840	-	143	
LOGG	CARN	76	2608	RITH	. 5	CT	3	2	139.000	5.657	4.000	11.314	32.000	. 00.100	105.040	130	140	
							_		44 000	4 676	0 445	0 480	1.158	40.768	41.338	38	- 44	
	CARN	77		FENC	TR	CHUM	0	57	41.053	1.076	0.143	2.152		40.704	41.656	- 38	45	
LOGG		77		FENC	TR	CHUM	0	50	41.180	1.674	0.237	3.349	2.804		43.012	40	45	
	CARN	77		FENC	TR	CHUM	0	50	42.680	1.168	0.165	2.337	1.365	42.348		38	44	
LOGG	CARN	77		FENC	TR	CHUM	0	40	42.325	1.289	0.204	2,578	1.661	41.913	42.737	-	47	-
	CARN	77		FENC	TR	CHUM	0	41	42.976	1.695	0.265	3.391	2.874	42.441	43.510			
LOGG	CARN	77	2403	FENC	TR	COHO	0	49	37.122	0.949	0.136	1.899	0.901	36.850	37.395	35	40	
LOGG	CARN	77	0404	FENC	TR	COHO	0	45	36.867	0.694	0.103	1.388	0.482	36.659	37.075	36	38	
LOGG	CARN	77	1404	FENC	TR	COHO	0	48	38.167	1.038	0.150	2.077	1.078	37.865	38.468	36	40	ě
LOGG	CARN	77	2604	FENC	TR	COHO	0	51	37.627	1.311	0.184	2.622	1.718	37.258	37.996	34	44	
LOGG	CARN	77	0305	FENC	TR	COHO	0	45	38.400	1.321	0.197	2.642	1.745	38.004	38.796	36	43	
LOGG	CARN	77	0606	FENC	TR	COHO	0	14	46.000	4.438	1.186	8.875	19.692	43.438	48.562	. 37	51	-
LOGG	CARN	77	2503	FENC	TR	COHO	1	15	65.933	5.885	1.520	11.771	34.638	62.681	69.185	- 60	79	
LOGG	CARN	77	2503	FENC	TR	COHO	2	1	82.000			*						
LOGG	CARN	77	3003	FENC	TR	COHO	1	9	67.111	7.474	2.491	14.948	55.861	61.356	72.866	60	78	
LOGG	CARN	77	0604	FENC	TR	COHO	1	77	67.792	5.197	0.592	10.394	27.009	66:614	68.971	60	81	
	CARN	77		FENC	TR	COHO	2	5	88.000		1.673	7.483	14.000	83.348	92,652	84	94	
	CARN	77		FENC	TR	COHO	1	171	73.825	7.119	0.544	14.239	50.687	72.747	74.903	60	90	
	CARN	. 77		FENC	TR	COHO	2	54	90.389		1.667	24.493	149.978	87.056	93.722	73	120	
	CARN:	77		FENC	TR	COHO	1	146	73.712		0.706	17.071	72.855	72.314	75.111	60	97	,k
	CARN.	77		FENC		COHO	2	. 69	94.406		1,197	19.892	98.921	92.023	96.789		122	
	CARN	77		FENC	TR	COHO	1	187	77.021		0.677	18.522	85.763	75.680	75.362		101	
	- CARN	77		FENC	0.10	COHO	2	118	97.076		1.005	21.844	119.285	95.086	99.067	80	125	
	CARN	77		FENC	TR	COHO	1	292	81.192		0.557	19.019	90.430	80.090	82.294	-	101	
	CARN	. 77		FENC	TR	COHO	2 .		98.259		0.503	18.834	88.684	97.264	99.255		122	
	CARN	77		FENC		COHO	1	275			0.457	15.168	57.519	80.382	82.193		96	
LUGG	CARN	,,	1108	FENC	114.	CUNU		2/5	0.1.287	1.064	0.457	10.100	37.318	60.002	02. 700			

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	ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	- \$	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
		CARN	77		FENC	TR	COHO	2	205	100.244	7.336	0.512	14.671	53.813	99.229	101.258	89	127	
		CARN		1805		TR	COHO	1	178	81.753	6.678	0.501	13.356	44.594	80.762	82.744	60	95	
		CARN	77		FENC	TR	COHO	2	116	96.181	7.335	0.681	14.670	53.802	94.833	97.529	. 82	-117	
		CARN	77 .		FENC	TR	COHO	1	76	81.342	7.639	0.876	15.279	58.361	79.598	83.086	. 67	95.	
		CARN	77 .		FENC	TR	COHO	2	49	95.694	8.024	1.146	16.048	64.384	93.390	97.998	82	113	
		CARN	77		FENC	TR	CÓHO	1	17	79.824	8.538	2.071	17.077	72,904	75.433	84.214	65	94	
	-	CARN .	77 .		FENC	TR	COHO	2	24	101.958	9.120	1.862	18.240	83.172	98.105	105.812	90	132	
	-	CARN .	77 .		FENC	TR	COHO	1	4	84.500	4.509	2.255	9.018	20.333	77.330	91,670	79	90	
7000		CARN	77		FENC	TR	COHO	1	6	73.500	14.265	5.824	28.531	203.500	58.533	88.467	60	89	
		CARN	77		FENC	TR	COHO	2	. 1	103.000					7				
		CARN :		1905	. 2	. PS	COHO	0	103	44.534	4.535	0.447	9.070	20.565	43.649	45.419	38	59	
		CARN .	77	1905	2	PS	COHO	1	- 11	72.364	6.500	1.960	13.001	42.255	67.993	76.734	65	84	
-				1805	3	PS	COHO	0	120	44.492	3.983	0.364	7.966	15.865	43.772	45.212	36	54	
		CARN	77	1805	3	PS	COHO	1	12	71.583	9.080	2.621	18.160	82.447	65.817	77,350	57	90	
		CARN	77	1805	. 4	PS	COHO	0	144	45.257	3.806	0.317	7.612	14.486	44.629	45.885	. 37	. 56	
		CARN				PS	COHO	1	27	65.963	5.516	1.061	11.031	30.422	63.776	68.150	59	. 84	
-	-	CARN	77.	1705	5	PS	COHO	0	183	42.973	4.427	0.327	8.854	19.598	42.325	43.621	34	53	
		CARN	77.	1705	. 5	PS	COHO	1	27	73.000	7.565	1.456	15.130	57.231	70.001	75.999	59	89	
		CARN	77	1.705	. 6	PS	COHO	0	128	40.023	3,433	0.303	6.866	11.787	39.423	40.624	35	. 48	è
		CARN	77.	1705	. 6	PS	COHO	1.	9	60.444	5.548	1.849	11.096	30.778	56.173	64.716	54	71	
		CARN	77	1605	. 8	PS PS	COHO	0	183	38.098	3.989	0.295	7.978	15.913	37.514	38.682	34	53	
			77	1805	TOTL	PS	COHO	1	8	65:500	9.842	3.480	19.683	.96.857	57.288	73.712	57	87	
		CARN	77				COHO	1	94	68.883	8.148	0.840	16,295	66.384	67,219	70.547	54	80	
		CARN	77	1306	2	. PS	COHO	0	82	50.073	4.444	0.491	8.888	19.748	49.097	51.050	40	61 -	
		CARN	77	2107	2	PS	COHO	1	2	71.500	6.364	4.500	12.728	40.500	14.305	128.695	67	76	
		CARN	77		. 2	SPS	COHO	.0	133	59.632	5.181	0.449	10.362	26.841	58:742	60.521	44 .	70	
		CARN .		2107	2	SPS	COHO	1	14	77.000	5.533	1.479	11.066	30.615	73.806	80.194	70	87	
	-	CARN	77	2107	3	SPS	COHD	0	126	58.667	4.067	0.362	8.135	. 16.544	57.949	59.384	46	67	
		CARN	77	2107	3	SPS	COHO	1	22	73.364	5.827	1.242	11.654	33.957	70.780	75.948	67	85	
		CARN	77	2007	4	SPS	COHO	0	204	56.368	4.555		9.110	20.746	55.736	56.999	46	69	
		CARN	77	2007	4	SPS	COHO	1 .	29	76.345	5.589	1.038	11.177	31.234	74.217	78.472	69	88	
		CARN	77	2007	5	SPS	COHO	0	504	53.964	6.398	Q. 285	12.796	40.937	53.400	54.529	.41	.70	
-	-	CARN	77	2007	5	SPS	СОНО	1	34	77.676	6.839	1.173	13.678	46.771	75.296	80.057	70	92	
		CARN .		1907	6	SPS	COHO	. 0	170	49.200	4.851	0.372	9.702	23.534	48.463	49.937	35	66	
		CARN .	77	1907	6.		COHO	1	15	71.267	5.063	1.307	10.127	25.638	68.469	74.064	65	82	
		CARN		1907	8	SPS	COHO	0	240	49.346	5.509	0.356	11.017	30.344	48.642	50.050	36	65	
		CARN.	77	1907	8	SPS	COHO	1	18	73.611	5.359	1.263	10.719	28.722	.70.946	76.276	63	.80	
		CARN	77		TOTL	SPS	COHO	. 1	132	75.311	6.189	0.539	12.379	38.307	74.244	76.377	63	. 92	
-		CARN	~ ~	1808	2	PS	COHO	0	68	63.147	4.780	0.580	9.559	22.844	61.994	64.300	53	71 .	
		CARN	77	1808	2	PS	COHO	1	11	77.545	3.751	1.131	7.503	14.073	75.023	80.068	73	84	
		CARN	77	2909	2	SPS	COHO	0	96	66.219	4.356	0.445	8.712	18.973	65.339	67.099	52	73	
		CARN	77	2909	2	SPS	COHO	1	40	81.650	6.878	1.088	13.756	47.310	79.453	83.847	74	98	
		CARN	77		3	SPS	COHO	0	91	65.571	3.922	0.411	7.844	15.381	64.753	66.390	54	73	
				2909	3	SPS	COHO	.1.	18	80.389	5.553	1.309	.11.107	30.840	77.627	83.151	73	.92	
		CARN	77	2809	. 4	SPS	COHO	0	139	61.799	4.792	0.406	9.583	22.959	60.994	62.603	49	73	
			77	2809	4	SPS	COHO	1	32	78.969	5.403	0.955	10.806	29.193	77.030	80.908	71	93	
LO		CARN	77	2609	5	SPS	COHO	0	381	59.459	6.220	0.3.19	12.440	38.686	58.828	60.090	46	78	
		CARN	77	2609	5	SPS	COHO	1	15	80.467	3.378	0.872	6.756	11.410	78.600	82.333	76	89	
		CARN	77	2709 2709	- 6	SPS	COHO		119	56.496	5.143	0.472	10.287	26.455	55.562	57.429	47	70	
		CARN	-	2709	6	SPS	COHO		19	78.421	6.067	1.392	12,135	36.813	75.498	81.344	71	90	
LUI	40	CARN .	,,,	2709	. 8	SPS	COHO	.0	118	58.161	5.235	0.482	10.469	27.401	57.207	59,115	45	71	

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ID	STREAM	YEAR	DATE	roċ	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX			
LOGG	CARN	77	2709	8	SPS	COHO	1	15	79.733	5.365	1.385	10.730	28.781	76.769	82.698	71	. 87	
LOGG	CARN.	77	2809	TOTL	SPS	COHO	1	138	80.159	5.802	0.494	11.605	33.668	79.181	81.137	71	98	
	CARN	77	2010	2	PS	COHO	0	58	69.172	4.754	0.624	9.508	22.601	67.924	70.421		78	
	CARN	77	2010	2	PS	COHO	1	7	84.714	5.529	2.090	11.058	30.571	79.594	89.834		96	
	CARN	77	2010	. 3		COHO	0	61		4.922	0.630	9.843	24.222	63.494	66.014		76	
	CARN	77	2010	3		COHO	1			6.551	3.276	13.102	42.917	71.834	92.666		92	
	CARN	77	2010	4	PS	COHO	0	45		4.488	0.669	8.976	20.143	60.900	63.589		75	
	CARN	77	2010	4	PS	COHO	1	3		2.887	1.667	5.774	8.333	80.167	94.500		89	
	CARN	77	2010	5	PS	COHO	. 0	150		6.258	0.511	12.517	39.166	60.262	62.285		80	
	CARN	77.	2010			COHO	1	3		6.110	3.528	12.220	37.333	73.164	103.502		95	
	CARN .	77	2110	6	PS.	COHO	0	60		4.305	0.556	8.610	18.531	55.555	57.778	- 51	7,1	. :
	CARN	77	2110	6	. PS	COHO	1	.1	91.000			44 400						
	CARN	. 77	2110	8	PS	COHO	0	45			0.835	11.197	31.345	58.122	61:478		. 72	
	CARN	77	2110	8	PS	COHO	1	3		2.082	1.202	4.163	4.333	79.165	89.501		86	
	CARN	77		TOTL	PS PS	COHO	. 1	21			1.120	10.266	26.348	83.040	87.722 70.279		96	
	CARN	77		TOTL	_			26		5.546	1.088	11.092	30.758	65.798			112	
	CARN	77		TOTL	PS SPS	RBT	2	25		10,640	4.758	21.279 15.185	113.200	83.972 41.552	110.428 47.808		56	
	CARN	77		TOTL	SPS	RBT	1	22		5.964	1.518		35.569		87.690		95	
	CARN	77		TOTL	SPS	RBT	2	13		9.464	1:272	11.928	89.564	82.401 96.586	108.030		121	
	CARN	77		TOTL	SPS	RBT	. 0	32		6.015	1.063	12.030	36.177	57.717	62.033		71	
	CARN	77		TOTL	SPS	RBT	1	16	94.875	8.302	2.075	16.603	68.917	90.454	99.296		109	
	CARN	77		TOTL	SPS	RBT	2	16		9.194	2.298	18.388	84.529	103.542	113.333		128	
	CARN	77		TOTL	SPS	CT	1	3		8.145		16.289		53.114	93.553		79	
	CARN	77		TOTL	SPS	CT	2	1	95.000	8.145	4.702	16.289	66.333	53.114	93.553	94	. /9	*
	CARN	77		TOTL	SPS	CT	1	12		6.156	1.777	12.313	37.902	74.173	81.993	67	. 87	
	CARN.	77		TOTL	SPS	CT	2	12	88.000	6.106	1.777	12.313	37.802	14.1/3	01.883	01	. 01	
	CARN	77		TOTL	SPS	CT	1	2		0.000	0.000	0.000	0.000	92.000	92.000	92	92	
	CARN	77		TOTL	SPS	CT	2	8			4.363	24.681	152.286	103.703	124.297		129	
	CARN	77	2007		SPS	CT	3	2				38.184	364.500	-24.085	319.085		161	2
	CARN	77		TOTL	SPS	CT	. 4	- 1	204.000	18.082	13.500	30.104	364.500	-24.065	319.000	. 134	101	**
	CARN .	77		TOTL	SPS	CT	o	4		4.856	2.428	9.713	23.583	49.529	64.971	51	62	.,
	CARN	77		TOTL	SPS	CT	1	5	87.200	5.357	2.396	10.714	28.700	80.540	93.860		92	
	CARN	77		TOTL	SPS	CT	2	1	93.000	5.351	4.396	.10.714	20.700	80.540	93,000	. 61	. 02	٠.
	CARN	77		TOTL	SPS	CT	1	2		2.121	1.500	4.243	4.500	80.435	118.565	98	101	
	CARN	77		TOTL	SPS	CT	2	6		9.628	3.931	19.256	92.700	101.398	121.602		124	*
	CARN	77		TOTL	SPS	СТ	3	1		0.020	3.001	10.200		101.000	121.002			
	CARN	77		TOTL	SPS	СТ	2		136,000									
	CARN	77	2809		SPS	CT	3	À	154.500	15.264	7.632	30.529	233.000	130.230	178,770	137	173	1
	CARN	77		TOTL	SPS	CT	4	3	205.667	5.033	2.906	10.066	25.333	193.171	218.162		211	
	CARN	77	1905	2	PS	ALUT	-	33	61.636	9.034	1.573	18.068	81.614	58.444	64.829		. 81	
	CARN	77		TOTL	PS	ALUT	-	52			1.994	28.763	206.830	65.627	73.604		104	
	CARN	77	1306	2	PS	ALUT	-	48	64.083	9.227	1.332	18.454	85.142	61.406	66.760		84	
LOGG	CARN	77	2107	2	SPS	ALUT	-	118		14.680	1.351	29.361	215.516	66.799	72.150		119	
	CARN	77	2007		SPS	ALUT	-	170	76.412		1.296	33.802	285.652	73.845	78.978		119	
	CARN	17	2809	. 2	SPS	ALUT	-	84		11.567	1.262	23.133	133.788	69.405	74.428		. 110	
	CARN .	77		TOTL	SPS	ALUT	-	139	79.957		1,210	28.523	203.389	77.562	82.352		110	
LOGG	CARN	. 77		UPER	S	CT	1	21	61.667	7.742	1.689	15.483	59.933	58.136	65.197		73	
LOGG	CARN "	77	1006	UPER	. 5	CT	2	13	94.538	8.027		16.054	64.436	89.685	99.392	-	112	
LOGG	CARN .	77	1006	UPER	. 5	CT-	. 3	1	163.000								,	
LOGG	CARN :	. 77	2809	UPER	5	· CT	0 .	36		4.772	0.795	9.544	22.771	41.913	45.142	33	. 54	
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ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX			
LOG	G CARN	77	2809	UPER	S	CT	1	28	84.964	11.831	2.236	23.661	139.962	80.381	89.548	. 65	103	
LOG	G CARN	77	2809	UPER	. 5	. · CT	2	4		3.775		7.550	14.250	105.748	117.752		117	
	G CARN	7.7	2809	UPER	S	CT	3	1	128.000							:: .		
	G CARN	77		2100	5		1	25	67.680	9.232	1.846	18.464	85.227	63-876	71:484	55	. 85.	
	G CARN	77 .		2100	. 2	. CT	2 .	3	111.333	8.622	4.978	17.243	74.333	89.929	132.738	102	119.	
	G CARN	77		2100	S	CT	3	1	150.000	*						: 1		
	G CARN	77		2100	S	CT	0	14	46.214	6.204	1.658	12.408	38.489	42.633	49.796	35	55	
	G CARN	77		2100	S	CT	1	27	82.519	8.045	1.548	16.090	64.721	79.329	. 85.708	64	96	
	CARN	77		2100	. 5	CT	2	3		6.083	3.512	12.166	37.000	98.899	129, 101	107	118	
	CARN	77		-2100	S	· CT	3	2		4.243	3.000	8.485	18.000	93.870	170, 130		135	
	CARN	77		1600	. 5	COHO	0	20	57.750	5.990	1.339	11.980	35.882	54.951	60.549	46	70	
	G CARN	77		1600	S	СОНО	1	. 4	75.750	2.217	1.109	4.435	4.917	72.224	79.276	-74	79	
	CARN	77		USEL		COHO	0	32	63.688	5.450	0.963	10.901	29.706	61.732	65.643	54	73	
	CARN	77		USEL	S	CT	0	4	41.750	2.986	1.493	5.972	8.917	37.002	46.498	39	46	
	CARN	77		USEL	5	CT	1	12	79.917	6.775	1.956	13.550	. 45.902	75.614	84.219	71	91	
	CARN	77		USEL	5	CT	3	4		12.936	6.468	25.871	167.333	95.432	136.568	100	127	
	CARN	77		USEL	S	ALUT	3	1	161.000	40 040	4: 1000						1	
	CARN	77		FRED	SPS	COHO	0 .	125	69.950		1.680	26.026	169.336	66.590	73.310	47	102	
	CARN	77		FRED	SPS	RBT	0	14	52.286	6.973 7.290	0.624	13.946	48.619	63.405	65.875	43	. 83	•
	CARN	77		FRED	SPS	RBT	2.	1	99.000	7.290	1.948	14.580	53.143	48.077	56.494	38	63	
	CARN	77		FRED	SPS	COTD	-	164	45.726	18.721	1.462	37.442	000 400	in	40.000			
	CARN	77		PACH	· SPS	COHO	0	138	62.051	5.386	0.459	10.773		42.831	48.620	29	. 101	
	CARN	77		PACH	SPS	COHO	1	19	83.474	7.329	1.681	14.657	29.012 53.708	61.143	62.959	49	74	
LDGG	CARN	77		PACH	SPS	RBT	0	59	52.763	3.984	0.519	7.968	15.874	79.943	87.004	75	98	
LOGO	CARN	77		PACH	SPS	RBT	1	3	90.000	8.185	4.726	16.371		51.725	53.800	44	66	
LOGG	CARN	77		PACH	SPS	CT	o	1	55.000	0.100	42720	10.3/1	67.000	69.679	110.321	83	99	
LOGO	CARN	77	3008		SPS	CT	2	1	114.000						1.41	1 10,		
LOGG	CARN	77	3008	PACH	SPS	ALUT	-	94	61.340	10 496	1.083	20.992	110.162	59.197	63.484	45	84	
LOGO	CARN	77		PACH	SPS	ASPR	-	54	86.204	18.691	2.543	37.381	349.335	81.117	91: 291	48	157	
LOGO	CARN	77	3108	RITH	S	CT	0	40	54.950	9.408	1.488	18.816	88.510	51.945	57.955	36	73	
LOGG	CARN	77	3108	RITH	S	CT	1	9	96.222	7.934	2.645	15.868	62.944	90.113	102.331	.83	107	
LOGG	CARN	77	3108	RITH	5	CT	2	8	121.500	7.838	2.771	15.675	61.429	114.960	128.040		134	
LOGG	CARN	77	3108	RITH	5	CT	3	. 1	152.000	7.000		13.673	01.429	114.860	128.040	110	134	
	CARN	78	2403		TR	CHUM	0	76	42.145	1.937	0.222	3.874	3.752	41.703	42.587	- 38	45	
	CARN		0104		TR	CHUM	0	.50	40.500	0.886	0,125	1.773	0.786	40.248	40.752	39	43	
	CARN	78	1004		TR	CHUM	0	50	41.960	1.068	0.151	. 2.137	1.141	41.656	42.264	40	44	
	CARN	78	2004		TR	CHUM	0	33	41.909	0.914	0.159	1.828	0.835	41.586	42.232	40	44	
	CARN	78	3004		TR	CHUM	. 0	50	42.540	0.788	0.111	1.576	0.621	42.316	42.764	41	44	
	CARN	78	2403		TR	COHO	0	88	39.102	0.959	0:102	1.919	0.920	38.899	39.306	37	44	
	CARN		0104		TR	COHO	0	69	36.812	1.102	0.133	2.204	1.214	36.548	37.076	34	39	
	CARN	78	1004		TR	COHO	0	50	35.620	1.123	0.159	2.246	1.261	35,301	35.939	33	39	
	CARN		2004		TR	COHO	0	18	36.333	0.970	0.229	1.940	0.941	35.851	36.816	34	38	
	CARN		3004		TR	COHD	0	66	39.015	1.246	0.153	2.493	1.554	38.710	39.320	35	42	
	CARN	78	1105		TR	COHO	0	71	38.676	1.381	0.164	2.762	1.908	38.350	39.002	. 37	46	
	CARN		2905		TR	COHO	0	51	40.353	2.985	0.418	5.971	8.913	39.513	41.193	34	49	
	CARN		1006		TR	COHO	0	69	42.275	3.429	0.413	6.859	11.761	41.454	43.097	34	52	
	CARN		1306		TR	COHO	0	117	42.308	3.302	0.305	6.604	10.905	41.703	42.912	. 35	52	
	CARN		1508			COHO	0	30	46.767	2.849	0.520	5.698	8.116	45.706	47.828	42	53	
Ludu	CARIT	10	1308	FENG	TR	COHO	0	170	48.506	3.427	0.263	6.853	11.743	47.986	49.026	40	58	

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10	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C. I . MAX	MIN	MAX	
	CARN	78		FENC	TR	COHO	1	127	74.559	6.389	0.567	12.778	40.820	73.437	75.682	61	86	
	CARN	78		FENC	TR	COHO	2	36	85.556	8.984	1.497	17.968	80.711	82.516	88.595	. 70	117	
	CARN	78		FENC	TR	COHO	1	289	72.993	6.377	0.375	12.754	40.667	72.250	73.736	60	86	
	CARN	78		FENC		COHO	2	66	86.000	8.624	1.062	17.248	74.369	, 83.888	88.112	70	107	
	CARN	78		FENC	TR	COHO	1	285	73.839	7.096	0.420	14.192	50,354	73.006	74.671	60	95.	
	CARN .	78		FENC	TR	COHO	2	63	91.825	9.126	1.150	18.251	83.275	89.537	94.113	77	111	
	CARN	78		FENC	TR	COHO	. 1	87	75.552	8.124	0.871	16.247	65.994	73.819	77.285	61	96	**
	CARN	78		FENC	TR	COHO	. 2	27	94.185	7.631	1.469	15.262	. 58.234	91.160	97.211	80	108	٠.
	CARN	78		FENC	TR	COHO	1	351	83.949	9.769	0.521	19.538	95.437	82.916	84.981	60	105	1
	CARN	78		FENC	TR	COHO	2	70	104.929	8.155	0.975	16.310	66.502	102.989	106.868	91	130	
	CARN	78		FENC	TR	COHO	. 1	463	85.739	8.962	0.416	17.924	80.315	84.914	86.563	62	103	
	CARN	78 78		FENC	TR	COHO	2	111	104.613	6.977	0.662	13.954	48.676	103.301	105.924	92	125	
	CARN	78		FENC	TR	COHO	1	617	86.254	8.382	0.337	16.764	70.258	85.586	86.923	60	103	
	CARN	78		FENC	TR	COHO	2	123	105.049	7.505	0.677	15.010	56.325	103.709	106.389	.92	128	
	CARN	78		FENC	TR	COHO	1 2	106	87.173	7.948	0.263	15.896	63.171	86.652	87.694	63	106	
	CARN	78		FENC	TR	COHO	1	520	105.509 86.663	7.053	0.685	14.105	49.738	104.153	106.866	92	123	
	CARN	78		FENC	TR	COHO	2	36		7.443	0.326	14.887	55.403	86.017	87.310	64	106	
	CARN	78		FENC	TR	COHO	1	153	100.944	6.748	1.125	13.497	45.540	98.661	103.228	92	119	
	CARN .	78		FENC	TR	COHO	2	30	99.200	9.448	1.725	11.094	30.768 89.269	83.066	84.842	62	95	
	CARN	78		FENC	TR	COHO	1	41	83.439	5.844	0.913	11.688	34.152	95.681 81.595	102.719	87	128	
	CARN	78		FENC	TR	COHO	2	3	96.000	1.000	0.577	2.000	1.000	~	85.283	71	93	
	CARN	78	0706		TR	COHO	1	16	85.125	5.214	1.303	10.428	27.183	93.517	98.483	95	97	
	CARN	78	0706		TR	COHO	2	3	109.667	3.215	1.856	6.429	10.333	101.686	87.901 117.647	78 106	93	
LOGG	CARN.	78		FENC	TR	COHO	1		92.000	3.082	1.378	6.164	9.500	88.168	95.832	87	112	
LOGG	CARN .	78		FENC	TR	COHO	. 2	5	107.400	9.555	4.273	19.110	91.300	95.521	119.279	101	124	
	CARN	78	0806	2	SPS	COHO	õ	202	45.960	4.257	0.299	8.513	18:118	45.367	46.553	38	62	
LOGG	CARN	78	0806	. 2	SPS	COHO	1	6	78.333	7.062	2.883	14.123	49.867	70.924	85.742	66	85	
LOGG	CARN	78	0806	3	SPS	COHO	0	363	47.066	4.840	0.254	9.679	23.421	46.563	47.569	34	62	5
LOGG	CARN	78	0806	3	SPS	COHO	1	17	78.765	8.927	2.165	17.854	79.691	74.175	83,355	65	99	
LOGG	CARN	78	0706	4	SPS	COHO	0	346	45.092	5.499	0.296	10.997	30.235	44.507	45.678	35	59	
LOGG	CARN	78	0706	4	SPS	COHO	1	41	72.268	8.204	1.281	16.407	67,301	69.680	74.856	60	87	
LOGG	CARN	78	0506	5	SPS	COHO	0	131	41.557	2.915	0.255	5.829	8.495	41.053	42.061	35	53 .	
LOGG	CARN	78	0506	5	SPS	COHO	1	41	66.732	5.015	0.783	10.030	25.151	65.150	68.314	58	78	
	CARN	78	0706	6	SPS	· COHO	0	306	41,480	3.154	0.180	6.308	9.949	41.123	41.837	35	55	
	CARN	78	0706	6	SPS	COHO	1	37	68.541	6.492	1.067	12.984	42.144	66.385	70.696	58	91	
	CARN	78	0506	8	SPS	COHO	0	149	43.034	3.926	0.322	7.851	15.411	42.397	43.670	35	58	
	CARN .	78	0506	8	SPS	COHO	1	11	72.545	6.455	1.946	12.911	41.673	68.205	76.886	60	82	
LOGG		78.	0706	TOTL	SPS	COHO	1 .	153	70.863	7.932	0.641	15.865	62.922	69.593	72,133	58	99	
LOGG		78	2507	2	SPS	COHO	0	262	53.508	6.145	0.380	12.290	37.760	52.756	54.259	38	72	
	CARN	78	2507	2	SPS	COHO	1	13	85.692	6.223	1.726	12.447	38.731	81.929	89.455	75	98	
LOGG		78	2507	3	SPS	COHO	0	351	53.524	6.402	0.342	12.803	40.982	52.848	54.201	40	75	
LOGG		78	2507	3	SPS	COHO	1	11	84.364	5.182	1.562	10.364	26.855	80.879	87.848	76	93	
Logg		78	2607	4	SPS	COHO	0	497	50.871	6.268	0.281	12.536	39.286	50.315	51.428	39	69	
LOGG		78	2607	4	SPS	COHO	. 1	30	77.067	5.085	0.928	10.170	25.857	75.173	78.961	69	88	
LOGG		78	2607	5	SPS	COHO	0	384	48.375	4.101	0.209	8.201	16.815	47.961	48.789	39	64	
LOGG		78 78	2607	5	SPS	COHO	1	42	73.381	5.763	0.889	11.527	33.217	71.593	75.168	65	89	
LOGG		78	2707	6	SPS	COHO	0	636	47.758	4.953	0.196	9.907	24.537	47.369	48.147	37	64	
LOGG		78	2707	. 8	SPS	COHO	: 1	47	73.340	4.631	0.676	9.262	21.447	71.983	74.698	64	83	
LOGG			2707	. 8	SPS	COHO	0	321	50.785	5.948	0.332	11.897	35.382	50.128	51.442	40	69	
					ara	CONO".		11	78.273	6.230	1.879	12.461	38.818	74.084	82.462	69	.87	1
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ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	s	SXBAR	25	5*5	C.I.MIN	C.I.MAX		MAX	
LOGG	CARN	78	2607	TOTL	SPS	COHO	1	154	76.260		0.542	13.442	45.174	75.187	77.332		98	4.
	CARN	78	0510			COHO	o	226			0.414	12.447	38.733	60.167	61.806		78	
LOGG	CARN	78	0510			COHO	1 .	10		5.793		. 11.585.	33.556	80.860	89.140		94	
LOGG	CARN	78	0510	3	SPS	COHO	0	141		7.127	0.600	14.253	50.790	59.634	62.011		79	
LOGG	CARN	78	0510	3	SPS	COHO	1	16	90.500	9.121	2.280	18.243	83.200	85.643	95.357		109	
	CARN	78	2609	4	SPS	COHO	0	310	57.813	7.502	0.426	15.003	56.276	56.969	58.657		77	
	CARN	78	2609	.4	SPS	COHO	1	. 20	84.700	6.131	1.371	12.262	37.589	81.835	87.565		95	
	CARN	. 78	2009	5	SPS	COHO	0	210	54.381	4.827	0.333	9.654	23.299	53.721	55.040		- 69	
	CARN	78	2009	5	SPS	COHO	1	32	77.313		0.925	10.466	27.383	75.435	79.190	: 67	87	
	CARN	78	2609	6.	SPS	COHO	0	257	53.475		0.359	11.512	33.133	52.764	54.186	43	68	
	CARN	78	2609	6	SPS	СОНО	1	42	77.286		0.796	10.315	26.599	75.686	78.885	. 67	. 86	
	CARN	78	2009	8	SPS	COHO	0	123	56.398	6.868	0.619	13.737	47.,176	55.172	57.625	46	73	
	CARN	78	2009	8	SPS	COHO	1	. 7	79.714	3.352	1.267	6.705	11.238	76.610	82.819	76	. 85	
	CARN	78		TOTL	SPS	COHO	1 "	.127	80.866	7.545	0.670	15.090	56.926	79.541	82.192	.67	109	
	CARN	78		TOTL	SPS	RBT	0	1	55.000				**					
	CARN	78	0706		SPS	RBT	1	13		7.720	2.141	15.441	59.603	76.794	86,129		94	
	CARN	78	0706	TOTL	SPS	RBT	2		114.400		3.076	13.755	47.300	105.850	122.950		124	
	CARN	78		TOTL	SPS	RBT	0	56 23	47.607		0.446	6.668	11.116	46.716	48.498	42	: 54	
	CARN	78		TOTL	SPS	RBT	2			7.029	1.466	14.057	49.403	89.271	95.338		104	
	CARN	78	2709		SPS	RBT	0		119.000	6.549	4.524	22.163	122.800	107.373	130.627			
	CARN	78	2709		SPS	RBT	1		106.636	6.233	1.637	13.099	42.896	60.200	67.175	51	74	
	CARN	78	2709		SPS	RBT	2		129.500		4.552	22.298	38.855	102.445			116	
	CARN	78	2709		SPS	RBT	3	1	169.000	11.148	4.552	22.290	124,300	117.803	141,197	117	150	
	CARN	78	0706		SPS	CT	0	22	31.545	1.438	0.307	2.877	2.069	30.908	32:183	00	34	
LOGG	CARN	78		TOTL		CT	1	11	81.909	8.408	2.535	16.816	70.691	76.256	87.562	71	97	
LOGG	CARN .	78	0706		SPS	CT	2	5	116.000	7.874	3.521	15.748	62.000	106.211	125.789		123	
LOGG	CARN	78	0706		SPS	CT .	3	3	150.333	9.815	5.667	19.630	96.333	125.967	174.700		156	
LOGG	CARN	78	2607	TOTL	SPS	. CT	0	110	44.545	4.389	0.418	8.777	19.259	43.717	45.374	30	57	
LOGG	CARN	78 -	2607	TOTL.	SPS	CT	1	16	84.875	9.919	2.480	19.838	98.383	79.593	90.157	72	106	
	CARN	78	2607	TOTL	SPS	CT	2	4	123.500	4.123	2.062	8.246	17.000	116.944	130.056		128	
	CARN	78	2607	TOTL	SPS	CT	3	6	159.000		5.508	26.981	182.000	144.846	173.154		181	,
	CARN	78	2607		SPS	CT	4	1	220.000			,	,.,.				1 14	
	CARN	78	2709	TOTL	SPS	· CT	0	104	54.962	6.106	0.599	12.211	37.280	53.776	56.147	44	75	
	CARN	78	2709		SPS	CT	1	15	91.600	8.692	2.244	17.383	75.543	86.798	96.402	79	107	
	CARN	78	2709		SPS	CT	2	. 8	134.000	8.435	2.982	16.869	71.143	126.962	141.038	119	145	
	CARN	78	2709		SPS	CT	3	3	185.667	26.407	15.246	52.814	697.333	120.108	251.225		:209	
	CARN	78	9080	2	SPS	ALUT	-	99	64.889	13.376	1.344	26.752	178.916	62.227	67.551	. 41	99	
	CARN		0706		SPS	ALUT	-	143	72.357		1.405	33.614	282.471	69.574	75.139	41	107	
	CARN	78	2507	2	SPS	ALUT	-	211	60.621		0.860	24.984	156.056	58.918	62.324	-34	109	
	CARN	78	2607		SPS	ALUT	- ,	246	64.504		1.061	33.285	276.969	62.403	66.605	34	135	
	CARN		0510	2	SPS	ALUT	-	256	60.109		0.653	20.905	109.251	58.816	61.403	37	96	
LOGG			2709		SPS	ALUT	-	334	66.329		0.887	32.412	262.642	.64.574	68.085	37	110	
	CARN		0806 2507	2	SPS	ASPR	.**	22	82.000		3.308	31.033	240.762	75.119	88.881	61	117	
	CARN		0510	2	SPS	ASPR	~	15	82.267		4.368	33.835	286.210	72.919	91.614	61	115	
LOGG			0606		5	ASPR	-	10	88.600		4.277	27.051	182.933	78.934	98.266	73	111	
LOGG			0606		S	CT	2	17	62.882	7.631		15.262	58.235	58.959	66.806	50	78	
LOGG		78	1909		S	CT	0	15	95.789 44.667		3.383	29.489	217.398	88.686	102.893	80	130	
LOGG		78	1909		s	CT	1	12	88.833	3.658	3.464	7.316	13.381	42.645	46.688	36	50	
LOGG	CARN		1909		S	CT	2 .		117.750		2.287	23.997	143.970	81.213	96.454	68	112	
: .					•	0.				4.373	. 2.287	9.147	20.917	110.478	125.022	113	124	
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1	ID :	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX			
LC	ogg	CARN	78	0606	2100	S	СТ	1	31	60.548	5.494	0.987	10.989	30.189	58.535	62.562	51	71	
		CARN	78		2100	S	CT	2	17	89.882	14.840	3.599	29.681	220.235	82.252	97.513	72	117	
LC	DGG	CARN	78	0610	2100	5	CT	0.	14	53.786	8.011	2.141	16.023	64.181	49:161	58.411	42	67	
LC	OGG	CARN	78	0610	2100	. 5	CT.	.1	31	86.613	13.119	2.356	26.238	172.112	81.806	91.420	. 70	115	
LC	DOG	CARN	78 .	0610	2100	S	CT	2	4	136.500	9.815	4.907	19.630	96.333	120.894	152.106		143	
LC	DGG	CARN	78	2009	1600	S	COHO	0	. 26	56.577	6.087	1.194	12.174	37.054	54.118	59.036	45	69	
LC	DGG	CARN	78	2009	1600	. 5	COHO	1	3	82.333	4.041	2.333	8.083	16.333	72.300	92.367	78	. 86	
LC	DGG	CARN-	78	3008	USEL	S	COHO	0	25	60.920	8.746	1.749	17.492	76.493	57.317	64.523	48	87	•
LC	OGG	CARN	78	3008	USEL	S	CT.	0	5	44,200	3.633	1.625	7.266	13.200	39.683	48.717	38	47	
LC	OGG	CARN	78	3008	USEL	S	CT.	. 1	11	88.818	9.516	2.869	19.033	90.564	82.420	95.217	. 75	106	4
-		CARN	78		USEL	S	CT	2	3	128.333		8.413	29.143	212.333	92.158	164.509		140	
-		CARN	78		USEL	. 5	ALUT		109	68.413		1.683	35.137	308.652	65.081	71.745	44	114	
-		CARN	78		FRED	PS	COHO	0	114	64.175	9.814	0.919	19.627	96.305	62.356	65.995	47	95	
		CARN	78		FRED	PS	ALUT	-	32		14.522	2.567	29.044	210.887	38.164	48.586	34	109	
		CARN	78		PACH	SPS	COHO	0	137	59.920		0.737	17.259	74.471	58.460	61.380	45	83	
		CARN	78		PACH	SPS	COHO	1	7	95.571	8.203	3.100	16.406	67.286	87.976	103.167	88	107	
-		CARN	78		PACH	SPS	RBT	0	51	52.627	5.016	0.702	10.032	25.158	51.216	54.039	44	110	4
		CARN	78		PACH	SPS	RBT	1	2	107.000		3.000	8.485	18.000	68.870	145.130		107	
		CARN	78		PACH	SP5	ALUT	•	112		12.563	1.187	25.126	157.830	64.060	68.761	64	172	
-		CARN	78		PACH	SPS	ASPR	-	73		20.026	2.344	40.051	401.025	87.391	96:719			
-		CARN	78		RITH	5	CT	0	16	56.000		2.488	19.906	99.067	50.700	61.300	80	107	
		CARN	78		RITH	S	CT	1	12	98.833	9.321	2.691	18.642	86.879	92.914	167.700		147	
_		CARN	78		RITH	5	CT	2	3	129.000	15.588	9.000	31.177	243.000	90.300	167.700	120	. 147	
LU	JGG	CARN	78	3008	RITH	S	CI	3	1	171.000									
10	200	CARN	79	2402	FENC	TR	CHUM	0	65	44.385	1.155	0.143	2.310	1.334	44,100	44:670	. 41	46	
		CARN	79		FENC	TR	CHUM	ő	51	40.980	0.761	0.107	1.523	0.580	40.766	41.195	39	42	
		CARN	79		FENC	TR	CHUM	ő	52	41.288	0.977	0.135	1.954	0.954	41.018	41.559	39	43	*
		CARN	79		FENC	TR	CHUM	0	17	41.353	1.169	0.135	2.339	1.368	40.752	41.954	39	43	
	-	CARN	79		FENC	TR	COHO	ŏ	48	36.313	0.903	0.130	1.806	0.815	36.051	36.574	33	38	
		CARN	79		FENC	TR	COHO	Ö	54	34.981	1.339	0.182	2.677	1.792	34.617	35.346	33	38	
		CARN	79		FENC	TR	COHO	ŏ	50	37.020	1.253	0.177	2.507	1.571	36.664	37.376	34	.39	
-		CARN	79		FENC	TR	COHO	ő	50	38.180	0.720	0.102	1.439	0.518	37.975	38.385	36	39	
-		CARN	79		FENC	TR	COHO	ŏ	50	37.260	1.065	0.151	2.131	1.135	36.957	37.563	36	43	
		CARN	79		FENC	TR	COHO	o	40	41.700	3.709	0.586	7.417	13.754	40.516	42.884	38	49	. "
-		CARN	79		FENC	TR	COHO	o	28	46.500	4.150	0.784	8.300	17.222	44.892	48.108	38	56	
		CARN	79		FENC	TR	COHO	ŏ	183	50.672	4.472	0.331	8.945	20.002	50.018	51,327	40	62	
-	-	CARN	79		FENC	TR	COHO	1	12	70.250	3.841	1,109	7.681	14.750	67.811	72.689	64	78	
		CARN	79		FENC	TR	COHO	2	1	82.000									
LO	DGG	CARN	79		FENC	TR	COHO	1	46	70.848	4.512	0.665	9.023	20.354	69.511	72.185	61	81	
LC	OGG	CARN	79		FENC	TR	COHO	2	10	84.000	7.055	2.231	14.111	49.778	78.958	89.042	72	89	
LO	DGG	CARN	79	0404	FENC	TR	COHO	1	102	71.765	5.640	0.558	11.279	31:805	70.659	72.870	60	87	*
		CARN	79		FENC	TR	COHO	2	11	89.273	6.665	2.009	13.329	44.418	84.792	93.754	79	98	
LO	DGG	CARN	79	1104	FENC	TR	COHO	. 1	423	76.073	8.046	0.391	16.091	64.732	75.299	76.848	60	103	*
LO	DGG	CARN	79 .		FENC	TR	COHO	2	60	93.667	10.840	1.399	21.681	117.514	90.868	96.466	77	127	
-		CARN	79		FENC	TR	COHO	-1	357	77.627	8.576	0.454	17.151	73.543	76.729	78.526	60	102	
		CARN	79		FENC	TR	COHO	2	82	93.634	8.626	0.953	17.252	74.408	91.739	95.530	77	110	
LO	OGG	CARN	79	2504	FENC	TR	COHO	1	407	79.572	7.503	0.372	15.005	56.290	78.836	80.309	. 60	95	· i
LO	DGG	CARN	79	2504	FENC	TR	COHO	2	112	98.393	7.568	0.715	15.135	57.268	96.977	99.809	85	120	
LO	DOG	CARN	79	0205	FENC	TR	COHO	1	641	84.495	8.485	0.335	16.969	71.988	83.831	. 85.158	60	107	4
LO	OGG	CARN	79	0205	FENC	TR	COHO	2	271	97.280	8.880	0.539	17.761	78.862	96.212	98.349	. 81	127	

																RAN	GE	
ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	, <b>S</b> .	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN.	. MAX	
LOG	CARN	79	0905	FENC	TR	соно	. 1	345	83.026	7,949	0.428	15.897	63.182	82.179	83.873	60	107	
LOG	CARN	79	0905	FENC	TR	COHO	.2	90	94.878	9.401	0.991	18.802	88.378	92.906	96.850	81	118	
LOG	CARN	79	1605	FENC	TR	COHO	1.	272	84.658	6.550	0.397	13.099	. 42.897	83.872	85.444	68	102	
LOG	CARN	79	1605	FENC	TR	СОНО	2	44	99.818	6.449	0.972	12.899	41.594	97.864	101.772	90	111	
LOG	CARN	79	2305	FENC	TR	COHO	1	112	83.196	6.657	0.629	13.315	44.321	81.951	84:442	62	95	
LOG	CARN	79	2305	FENC	TR	COHO	2	5	99.800	2.280	1.020	4.561	5.200	96.965	102.635	97	102	
LOG	CARN	79	3005	FENC	TR	COHO	1	33	85.455	7.571	1.318	15.142	57.318	82.779	88.130	60	95	
LOG	CARN	79	3005	FENC	TR	COHO	2	3	98.333	2.082	1.202	4.163	4.333	93.165	103.501	96	100	
LOG	CARN	79	0606	FENC	TR	COHO	1	12	83.833	7:907	2.282	15.813	62.515	78.812	88.855	74	99	
LOG	CARN	79	0606	FENC	TR	COHO	2	. 8	100.000	4.690	1:658	9.381	22.000	96.086	103.914	95	106	
LOG	CARN-	79	0406	2	SPS	COHO	0	124	43.266	4.300	0.386	8.600	18.490	42.502	44.031	35	60	
LOG	CARN	79	0406	2	SPS	соно	1	19	75.579	3.834	0.880	7.669	14.702	73.732	77.426	68	82	
LOG	CARN	79	1306	. 3	SPS	COHO	0	199	48.568	4.053	0.287	8.106	16.428	47.999	49.137	. 39	62	
LOG	CARN	79	1306	3	SPS.	COHO	1	36	77.000	4.459	0.743	8.919	19.886	75.491	78.509	66	85	
LOG	CARN	79	1306	4	SPS	COHO	0	366	45.036	4.281	0.224	8.561	. 18.325	44.592	45.479	37	61	
LOG	CARN	79	1306	4	SPS	COHO	1	61	73.607	5.270	0.675	10.541	27.776	72.257	74.956	62	88	
LOG	CARN	79	1106	5	SPS	COHO	0.	74	48.365	3.703	0.430	7.407	13.714	47.508	49.222	40	61	
LOGO	CARN	79	1106	5	SPS	COHO	1	46	70.152	4.190	0.618	8.380	17.554	68.911	71.394	63	79	,
LOGO	CARN .	79	1206	6	SPS	COHO	0	219	46.443	3.376	0.228	6.751	11.395	45.991	46.895	39 .	56	
LOG	CARN	79	1206	6	SPS	COHO	1	. 28	68.393	3.994	0.755	7.988	15.951	66.846	69.940	62	78	
LOG	CARN	79	1206	8	SPS	COHO	0	146	44.466	4.434	0.367	8.867	19.657	43.739	45.192	37	61	
LOG	CARN	79	1206	. 8	SPS	COHO	1	14	76.286	4.906	1.311	9.811	24.066	73.454	79.118	'68	84	
LOGO	CARN	79	1106	TOTL	SPS	COHO	1	204	73.078	5.438	0.381	10.876	29.570	72.325	73.832	62	88	
LOG	CARN	79	2407	2	SPS	COHO	0	257	51.101	5.468	0.341	10.935	29.896	50.426	51.776	42	68	
LOGO	CARN	79	2407	2	SPS	СОНО	1	20	76.950	6.871	1.536	13.742	47.208	73.739	80.161	67	90	
LOGG	CARN .	79	2407	3	SPS	соно	0	212	56.708	5.158	0.354	10.316	26.606	56.006	57.409	45	74	
LOGO	CARN	79	2407	3	SPS	COHO	1	36	80.111	5.518	0.920	11.035	30.444	78.244	81.978	70	89	
LOGO	CARN	. 79	2507	4	SPS	COHO	0	529	51.616	5.517	0.240	11.033	30.434	51.141	52.091	39	68	
LOGO	CARN	79	2507	4	SPS	COHO	. 1	51	78.686	5175	0.725	10.350	26.780	77.230	80.143	68	92	
LOGO	CARN	79	2507	5	SPS	COHO	0	89	55.472	4.806	0.509	9.611	23.093	54.458	56.486	41	66	
LOGO	CARN .	79	2507	. 5	SPS .	COHO	1.	26	74.000	4.118	0.808	8.237	16.960	72.336	75.664	68	82	
LDGG	CARN .	. 79	2607	6	SPS	COHO	0	182	53.978	4.150	0.308	8.301	17.226	53.369	54.587	44	64	**
LOGO	CARN	79	2607	6	SPS	COHO	1	12	75.333	4.355	1.257	8.711	18.970	72.567	.78.099	70	82	
LOGO	CARN	79 .	2607	. 8	SPS	COHO	0	626	49.091	5.010	0.200	10.019	25.097	48.695	49.488	41	68	
LOGG	CARN	79	2607	8	SPS	COHO	1	. 8	80.875	3.603	1.274	7.206	12.982	77.869	. 83.881	75	84	
LOGO	CARN	79	2507	TOTL	SPS	COHO	1	:153	77.850	5.617	0.454	11.234	31.550	76.951	78.749	67	92	
LOGO	CARN	79	2009	2	SPS	COHO	0	288	57.351	5.795	0.342	11.591	33.587	56.675	58.027	. 45	72	
LOGO	CARN	79	2009	2	SPS	COHO	1 .	40	79.525	5.598	0.885	11.195	31.333	77.737	81.313	71	92	
LOGO	CARN	79	2009	3	SPS	COHO	0	236	61.886	5.210	0.339	10.419	27.140	61.214	62.557	. 46	74	
LOGO	CARN	79	2009	. 3	SPS	COHO	1	43	81.953	5.777	0.881	11.555	33.379	80.183	83.724	73	97	
LOGG	CARN	79	1909	4	SPS	COHO	0	489	57.029	5.819	0.263	11.639	33.864	56.508	57.550	41	73	
LOGO	CARN	79	1909	4	SPS	COHO	1	45	81.800	5.687	0.848	11.375	32.345	80.096	83.504	73	95	
LOGO	CARN	79	1909	5	SPS	COHO	0	66	62.652	4.291	0.528	8.583	18.415	61.600	63.703	49	71	
LOGG	CARN	79	1909	5	SPS	COHO	1	23	78.652	3.845	0.802	7.690	14.783	76.993	80.312	72	85	
LOGO	CARN	79	1809	6	SPS	COHO	0	187	60.733	4.718	0.345	9.436	22.261	60.049	61.416	45	70	
LOGO	CARN	79	1809	6	SPS	COHO	1	23	74.217	3.089	0.644	6.178	9.542	72.884	75.551	70	81	
	CARN	79	1809	. 8	SPS	COHO	0	394	55.071	5.754	0.290	11.508	33.109	54.497	55.645	44	70	
	CARN	79	1809	8	SPS	COHO	1	15	79.667	6.433	1.661	12.866	41.381	76.112	83.221	72	93.	
	CARN	79	1909	TOTL	SPS	COHO	1	189	79.878	5.784	0.421	11.569	33.459	79.045	80.711	70	97	
	CARN	79	1106	TOTL	SPS	RBT	. 1	. 12	85.667	9.208	2.658	18.416	84.788	79.819	91.515	77	109.	
LOGG	CARN	79	1106	TOTL	SPS	RBT	2 .	5	109.200	7.294	. 3.262	14.588	53.200	100.132	118.268	100	117	
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ID STREAM YEA	R DATE	LOC	GEAR	SPEC	AGE	N	XBAR	· S .	SXBAR	25	5*5	C.I.MIN	C.I.MAX		MAX	
LOGG CARN 79 LOGG- CARN - 79		TOTL	SPS	RBT	1 2	7		11.731	4.434	23.462	137.619	85.708	107.435	83	117	
LOGG CARN 79		TOTL	SPS	RBT	2	4		4.272	2.136	8.544	18.250	117.958	131.542	120	130	e . A
LOGG CARN 79		TOTL	SPS	CT	ō	2		0.707	0.500	1.414	0.500	19.145	31.855	25	26	
LOGG CARN 79		TOTL	SPS	CT	1	9		13.618	4.539	27.236	185.444	79.292	100.263	74	111	
LOGG CARN 79		TOTL	SPS	CT	2	. 6			5.816	28.493	202.967	95.886	125.781	96	132	
LOGG CARN 79		TOTL	SPS	CT	3	1			•.•.							
LOGG CARN 79		TOTL	SPS	CT.	0	79		3.310	0.372	6.621	10.958	39.955	41.437	31	49	
LOGG CARN 79		TOTL	SPS	CT	1	6	95.000		3.759	18.417	84.800	85.336	104.662	84	109	:
LOGG CARN 79		TOTL		CT	2.	4	131,500	7.724	3.862	15.449	59.667	119.218	143.782	124	142	٠
LOGG CARN 79	2507	TOTL	SPS	CT	3	2	190.500	10.607	7.500	21.213	112.500	95.175	285.825	183	198	
LOGG CARN 79	1909	TOTL	SPS	CT	0	37	53.270	4.221	0.694	8.441	17.814	51.869	54.672	- 44	63	
LOGG CARN 79	1909	TOTL	SPS	CT	1	11	96.455	10.903	3.287	21.806	118.873	89.124	103.785	. 81	113	
LOGG CARN 79	1909	TOTL	SPS	CT	2	1	140.000									
LOGG CARN 79	0406	2	SPS	ALUT	-	181	62.785	9.985	0.742	19.970	99.703	61.315	64.254	45	102	
LOGG CARN 78	1106	TOTL	SPS.	ALUT		238	68.731	15.479	1.003	30.958	239.607	66.744	70.718	45	111	
LOGG CARN . 79	2407	2	SPS	ALUT	-	113	66.965	10.543	0.992	21.086	111.159	65.001	68.928	41	100	
LOGG CARN 79	2507	TOTL		. ALUT	-	.168	71.571	13.554	1.046	27:109	183.719	69.501	73.642	41	108	,
LOGG CARN 79				ALUT		108		10.154	0.977	20.309	103.111	69.760	73.629	- 51	.100	
LOGG CARN 79		TOTL		ALUT		173		12.471	0.948	24.941	155.516	73.678	.77.432	51	.110	
LOGG CARN 79				ASPR	-	. 13		14.278	3.960	28.556	203.859	81.598	98.864	65	118	
LOGG CARN 79				ASPR		18		15.336	3.615	30.673	235.206	79.873	95.127	64	119	
LOGG CARN 79				ASPR	-	. 15		16.714	4.315	33.428	279.352	81.032	99.502	.64	110	
LOGG CARN 79		UPER		CT	1	27	65.815		1.282	13.325	44.387	63.174	68.456	51	75	
LOGG CARN 79		UPER		CT	2	21	98.857	9.986	2.179	19.973	99.729	94.303	103.412	87	125	
LOGG CARN 79		UPER		CT	. 3	5	131.200		3.338	14.926	55.700	121.921	140.479	120	137	
LOGG CARN 79		UPER		CT	0	37	48.757	4.740	0.779	9.480	22.467	47.183	50.331	37	58	
LOGG CARN 79		UPER	_	CT	1.	31		10.733	1.928	21.466	115.200,	84.067	91.933	65	108	4
LOGG CARN 79		UPER	S	CT	2	6		8.832	3.606	17.664	78,000	121.734	140.266	118	144	
LOGG CARN 79		UPER		CT	3	1	157.000					74 004	82.323	58	95	
LOGG CARN 79		2100		CT	1	13			2.583	18.626	86.731	71.061		92	117	
LOGG CARN 79		2100	_	CT	2	5	101.200		4.758	21.279	113.200	87.972	114.428		62	
LOGG CARN 79		2100		CT	0	3	59.333	2.517	1.453	5.033	6.333	53.086	99.572	87 77	108	
LOGG CARN 79 LOGG CARN 79		2100		CT	1 2	. 10			3.262	16.733	70.000	84.828 108.697	135.303	115	133	
LOGG CARN 79 LOGG CARN 79		2100		COHO	0	26	122.000	8.367 4.208	4.183 0.825	8.416	17.706	51.185	54.585	43	61	
LOGG CARN 79		1600		COHO	1	31	72.806	5.958	1.070	11.915	35.495	70.624	74.989	65	85	
LOGG CARN 79		1600	_	COHO	0	29	63.724	6.041	1.122	12.082	36.493	61.425	66.024	54	74	
LOGG CARN 79		1600		COHO	1	14	81.214	4.775	1.276	9.549	22.797	78.458	83.971	76	91	
LOGG CARN 79		USEL	S	COHO	ò	- 68	58.691	6.741	0.817	13.482	45.441	57.064	60:318	42	73	
LOGG CARN 79		USEL	S	CT	o	22	45.045	4.445	0.948	8.890	19.760	43.074	47.017	35	52	
LOGG CARN 79		USEL	S	CT	. 1	3	86.667	1.155	0.667	2.309	1.333	83.800	89.533	86	88	**
LOGG CARN 79		USEL	S	CT	2	1	102.000	1.100	0.007	2.000	1.000	00.000	05.000			
LOGG CARN 79		USEL	. 5	ALUT	-	123	65.886	16.115	1.453	32.230	259.692	63.009	68.763	44	122	٠.
LOGG CARN 79		USEL	5	ASPR		3		17.010.	9.821	34.020	289.333	48.105	132.562	73	107	
LOGG CARN 79		FRED	SPS	COHO	0	158	64.076	7.449	0.593	14.898	55.485	62.903	65.249	40	83	
LOGG CARN 79		FRED	SPS	RBT	ő	25	52.160	5.640	1.128	11.279	31.807	49.836	54.484	42	65	
LOGG CARN 79		FRED	SPS	ALUT	-	83	30.928	3.294	0.362	6.587	10.848	30.208	31.647	27	53	
LOGG CARN 79		FRED	SPS	ASPR	-	43	77.279		2.465	32.327	261.254	72.325	82.233	41	110	
LOGG CARN 79		PACH	SPS	COHO	0	420	48.502	6.032	0.294	12.063	36.379	47.920	49.085	40	73	
LOGG CARN 79		PACH		COHO	. 1	20	88.800		1.085	9.703	23.537	86.533	91.067	79	98	
	, 500	· Aun	Gra	00110		40	00.000	7.001	1.000	0.700	20.007				30	

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	10	TREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N.	XBAR.	s	SXBAR	25	5*5	C.I.MIN	C.I.MAX		MAX	
1	000	CARN	79	1508	PACH	SPS	RBT	0	97	48.309	4.485	0.455	8.969	. 20.112	47.408	49.211	- 36	60	
		CARN .	79		PACH	SPS	RBT	1	7	90.429	4.577	1.730	9.155	20.952	86.190	94.667		97	
		CARN	79		PACH	SPS	ALUT	-	. 54	66.241		1.446	21.251	112.903	63.349	69.133	48	91	
		CARN	79		PACH	SPS	ASPR		69	89.652	17.257	2.077	34.513	297.789	85.518		62	142	
1	LOGG	CARN	79	1308	RITH	· 5	·· CT	0	. 22	52.864	5.285	1.127	10.570	27.933	50.520	55.207	45	63	
-	LOGG	CARN	79	1308	RITH	S	CT	.1	- 4	107.000	5.774	2.887	11.547	33.333	97.820	116.180		114	٠.
		CARN	. 79		RITH	S	CT	2	6	126.833		5.845	28.633	204.967	- 111.812	141.854		. 150	
	LDGG	CARN	79	1308	RITH	. 5	CT	3	2	185.000	32.527	23.000	65.054	1058.000	-107.330	477.330	162	208	
. 1	LOGG	CARN	80	0304	FENC	TR	CHUM	0	. 57	41.719	1.082	0.143	2.163	1.170	41.433	. 42.006	38	. 44	•
-	LOGG	CARN .	. 80	1803	FENC	TR:	COHO	0	61	38.000	1.528	0.196	3.055	2.333	37.609	38.391.	34	40	
		CARN	80		FENC.	TR	COHO	0.		38:174	1.495	0.220	2.990	2.236	37.731	38.617	35	41	
		CARN	80		FENC	TR	COHO	0	. 172	37.692	1.504	. Q. 115	3.007	2.261	37.465	37.919	35	. 43	
		CARN	80		FENC	TR	COHO	0	52	37.500	1.245	0.173	2.489	1.549	37.155	37845	. 35	40	
		CARN	80		FENC	· TR	COHO	0	62	37.129	2,265	0.288	4.530	5.131	36.557	37.701	33	. 45	
		CARN	80		FENC	TR	COHO	0	25	36.800	0.707	0.141	1.414	0.500	36.509	37.091	35	38	
		CARN	80		FENC	TR	COHO	0	17	38.588	2.320	0.563	4.640	5.382	37.395	39.781	36	44	
		CARN	80		FENC	TR	COHO	0	63	37,984	1.611	0.203	3.223	2.597	37.580	38.388	34	46	
		CARN	. 80		FENC	TR	COHO	0	16	39.125	2.964	0.741	5.927	8.783	37.547	40.703	34	44	
		CARN	80		FENC	. TR	COHO	0	49	38.245	2.278	0.325	4.556	5.189	37.591	38.899	34	52	
		CARN	80		FENC	TR	COHO	. 0	. 56 75	39.821	2.992	0.400	5.983	6.028	39.022 40.596	41.724	37	. 47	
		CARN .	80	-	FENC	TR	COHO	. 0	138	41:160	2.455	0.252	5.931	8.793	40.834	41.833	35	51	
		CARN	80		FENC	TR	COHO	0	.49	41.939	2.221	0.317	4.442	4.934	41.301	42.577	38	48	
		CARN	80		FENC	TR	COHO	1	47	71.936	4.650	0.678	9.301	21.626	70.573	73.300		81	
		CARN	80-		FENC	TR	COHO	2	5	89.400	2.302	1.030	4.604	5.300	86.538	92.262	.87	93	
		CARN	80		FENC	TR	COHO	1	32		5.999	1.060	11.997	35.984	72.222	76.528	63	89	
		CARN	80		FENC	TR	COHO	2	5	93.600	8.473	3.789	16.947	71.800	83.065	104.135	85	104	
		CARN	80	0204		TR	COHO	-1	. 92	75.707	6.391	0.666	. 12.782	40.847	74.387	77.026	- 60	91	
		CARN	80		FENC	TR	COHO	2	6	94.667		5.116	25.065	157.067	81.517	107.816	84	119	
		CARN .	80		FENC	TR	COHO	. 1	207	76.681	8.188	0.569	16.376	67.043	75.554	77.808	60	. 96	
		CARN	80	0904		TR	COHD	2	30	94.933		1.875	20.544	105.513	91.108	98.759		115	
		CARN	80 .		FENC	TR	COHO	. 1.	324	77.793		0.454	16.355	66.870	-76.894	. 78.693	60	96	
		CARN	80	1604		TR	COHO	2	. 97	102.959		1,403	27.639		100, 181	105.737		183	
		CARN	80	2304	FENC	TR	COHO	. 1	317	84.044	9.769	0.549	19.539	. 95.441	82.958	85.131	60	108	
		CARN	80		FENC	TR	COHO	2		105.731		0.783		104.763	104.181	107.281		138	
-	LOGG	CARN	80	3004	FENC	TR	COHO	1	1033	88.996		0.311	20.005	100.048	88.380	89.612		110	
-	OGG	CARN	80	3004	FENC	TR	COHO	2	364	106.407	8.135	0.426	16.270	.66.181	105.562	107.251	94	134	
.1	DOG	CARN	80	0705	FENC	TR	COHO	1	869	88.168	8.712	0.296	17.423	75.891	87.583	. 88.753	60	114	
l	LOGG	CARN	80	0705	FENÇ	TR	COHO	2	207	103.845	8.538	0.593	17.076	72.898	102.670	105.020	89	126	
	LOGG			.1405		TR	COHO	1	303	85.234	8.040	0.462	16.080	64.644	84.320	86.149	60	113	
	DOG		80		FENC	TR	COHO	2		102.182	8.024	1.210	16.948	64.385	99.750	104.613		117	
	DOG		80		FENC	TR	COHO	1	197	87.452	8.710	0.621	17.420	75.861	86.223	88.680	63	105	
	LOGG		80		FENC	TR	COHO	. 2		107.370		2.590	26.914	181.088	102.035	112.705	85	148	
		CARN	80	2805		TR	СОНО	. 1	28	86.286	7.241	1.368	14.482	52.434	83.480	89.091	69	105	
		CARN	80	0406		TR	СОНО	1	4	80.250	4.272	2.136	8.544	18.250	73.458	87.042	75	. 85	
	LOGG		80	1106		TR	COHO	1	4	85.000	9.092	4.546	18.184	82.667	70.544	99.456	73	93	
		CARN	80	2207	2	SPS	COHO	0	256	46.977	5.799	0.362	11.597	33.623	46.259	47.694		64	
	.OGG		80	2207	2	SPS	COHO	1	38	72.132		0.931	11.477	32.928	70.251	74.012	: 64	90	
	OGG.		80		3	SPS	COHO	. 0	368	49.152	6.636	0.346	13.272	44.037	48.467	49.837	36	71	
	-oud	CARIA	au .	2207	: 3	SPS	COHO	-1	. 38	78.921	10.318	1.674	20.635	106.453	75.540	82.302	- 65	108	
				61						7 1	- '.								
		1.					.*									. 182 1 10	٠.,	1	
														4		*.			
																-			

										wash		SXBAR	25	5*5	C.I.MIN	C.I.MAX	RAN		
	ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	\$	SADAK	23	3-3	G.1.M1N	0.2.man	Mart	man	
	Logg	CARN	80	2407	4	SPS	COHO	0	718	47.428	5.765	0.215	11.531	33.238	47.002	47.854		63	
		CARN	80	2407	4	SPS	COHO	1	66	73.439	7.455	0.918	14.909	55.573	71.613	75.265	60	91.	
		CARN	80	2407	5	SPS	COHO	0	311	46:000	4.984	0.283	9.969	24.845	45.440	46.560	36	64	
		CARN	80	2407	5	SPS	COHO .	1	13	76.692	6.223	1.726	12.447	38.731	72.929	80.455	66	87	
		CARN.	80	2307	6	SPS	COHD .	0	557	45.761	5.603	0.237	11.205	31.391	45.291	46.231	36	67	
		CARN	80	2307	6	SPS	COHO	1	18	78.000	5.841	1.377	11.682	34.118	75.095	80.905	68	86	•
		CARN .	80	2307	8	SPS	COHO	0	546	47.535	4.957.	0.212	9.915	24.576	47.115	47.955	.37	65	
		CARN	80	2307	8		COHO	1	. 38	75.947	6.853	1.112	13.707	46.970	73.702	78: 193	65	103	
		CARN.	80 .	2307	TOTL	SPS	COHO	1	211	75.232	7.817	0.538	15.634	61.103	74.167	76.298	. 60	108	
		CARN	80	1609	2		COHO	0	283	53,159	5.745	0.341	11.489	32.999	52.483	53.835	. 40	68	
		CARN	80	1609	2		COHO	. 1	47	73.489	7.703	1.124	15.407	59.342	71.231	75.748	61	95	
		CARN	80	1609	3	SPS	COHO	: 0	300	54.283	6.201	0.358	12,403	38.458	53.574	54.992	39	70	*
		CARN	80	1609	3		COHO	1	55	77.655	10.045	1.354	20.089	100.897	74.946	80.363	62	99	
		CARN.	90	1709			COHO	0	637	50.432	6.519	0.258	13.037	42.491	49.920	50.943	38.	69	
		CARN	80	1709	4	SPS	COHO	ĭ	: 62	76.339	6.978	0.886	13.955	48.687	. 74.575	78.102	61	90	
		CARN	80	1709	5	SPS	COHO	0	286	49.465	5.779	0.342	11.559	33.401	48.788	50.142	37	69	
		CARN	80	17.09	. 5		COHO	. 1	22	76.364		2.216	20.790	.108.052	71.754	80.973	61	94	
		CARN	80	1809	6		COHO	0	410	50.637	6.038	0.298	12.077	36.462	50.046	51.227	38	70	
0		CARN	90	1809	. 6		COHO	1	16	79:750	5.745	1.436	11.489	33.000	76.691	82.809	71	88	
		CARN	80	1809	. 8	SPS	COHO	o	601	52.636	5.390	0.220	10.781	29.055	52.200	53.071	40	69	
		CARN	80	1809	. 8		COHO	1	49	78.082	5.450	0.779	10.900	29.702	76.517	79.647	71.	92	
		CARN	80		TOTL	SPS	COHO		2519	51.663	6.190	0.123	12:380	38.317	51.418	51.907	.37	. 71	
		CARN	30		TOTL	SPS	COHO	1	248	76.653	8.031	0.510	16.063	64.503	75.643	77.663	61 -	99	
		CARN.	80		TOTL	SPS	RBT	0	13	41.538	1.713	0.475	3.427	2.936	40.502	42.574	. 38	45	
		CARN	80		TOTL	SPS	RBT	ĭ	2	92.500	2.121	1.500	4.243	4.500	73.435	111.565	91	94	
		CARN	80		TOTL	SPS	RBT	2	1	124.000		1.000	4.240.	41000					
		CARN	80	_	TOTL	SPS	RBT	. 3	2	192.500	13.435	9.500	26.870	180.500	71.755	313.245	183	202.	5
		CARN	80		TOTL	SPS	RBT	0	28	67.964	5.660	1.070	11,320	32.036	65.772	70.157	. 59	80	
		1. 0.	80		TOTL	SPS	RBT	ĭ	20	98.000	4.243	3.000	8.485	18.000	59.870	136, 130	95	101	
		CARN	.80		TOTL	SPS	RBT	2	3	156.000		14.572	50.478	637.000	93.342	218.658	129	179	:
		CARN						_	16	32.688	1.702	0.425	3.403	2.896	31.781	33.594	30	36	
		CARN	80		TOTL	SPS	CT	. 1	14		9.236	2.468	18.472	85.302	88.740	99.403	79	107	
		CARN	80		TOTL	SPS			3	128.333		12.143	42.063	442.333	76.120	180.547	108	150	
		CARN	80		TOTL		CT.	2	26	52.346	4.335	0.850	8.671	18.795	50.595	54.098	40	62	
		CARN	80		TOTL		CT.	0			9.049	2.133	18.098	81.882	95.166	104 . 167	84	120	
		CARN	80		TOTL	SPS	CT	: 1	, 18	99.667				210.810	126.412	153.302	121	157	*
		CARN.	80		TOTL	SPS	CT	2	. 7	139.857	4.950	5.488	9.899	24.500	127.015	215.985	168	175	
		CARN	80		TOTL	SPS	CT	3	. 2	171.500		1,223	23.720	140.664	64.365	69.209	44	95	
		CARN	80 .	2207	2		ALUT		94		11.860			201.002	66.906	70.866	44	112	
		CARN	80		TOTL		ALUT	-	201		14.178	1.000	28.355		67.143	72:476	48	92	
		ÇARN	80	1609	2		ALUT	-	. 84		12.281	1.340	24.563	150.831	72.956	77.075	48	115	
		CARN	80		TOTL		ALUT:	-	191	75.016					80.026	93.654	68	130	
		CARN.	80	2207	. 2		ASPR	-	: 25		16.540	3.308	33.079	273.557	87.690		72	120	
		CARN	80	1609	2		ASPR	-	19		14.191	3.256	28.381	201.374		101.363	32	66	
		CARN	80		UPER		CT	0	35	46.029	8.604	1.454	17.208	74.029	43.076 83.576	92.709	71	108	
		CARN	80		UPER		CT	1	28	88.143		2.228	23.575	138.942			110	147	
		CARN	. 80		UPER		CT	2	10			3.809	24.089	145.067	118.192	135.408	49	71	
		CARN	80		2100		CT	0	21	62.381	5.844	1.275	11.687	34.148	59.716	65.046			
	-	CARN	80		2100		CT	1	4	105.000	7.257	3.629	14.514	52.667	, 93.461	116.539	95	112	
		CARN	80	1509			CT	2.	3	121.000	9.644	5.568	19.287	93.000	97.059	144.941	114	132	
		CARN	80	3107			COHO	0	65	49.046	6.772	0.840	13.544	45.857	47.375	50.718 117.985	38 70	65 77	
	LOGG	CARN	80	2107	1600	S	COHO	.1	2	73.500	4.950	3.500	9.899				70	77	

																RAN	GE .	
ID	STREAM	YEAR	DATE	LOC	GEAR	SPEC	AGE	N	XBAR	S	SXBAR	25	5*5	C.I.MIN	C.I.MAX	MIN	MAX	
LOGG	CARN	80	1709	1600	S	СОНО	0	74	51.622	7.250	0.843	14.501	52.567	49.944	53.299	38	71	
LOGG	CARN	. 80	1709	1600	S	COHO	1	2	77.000		3.000	8.485	18.000	38.870	- 115, 130		80	
LOGG	CARN'	80	1908	USEL	S	COHO	0	58	55.931		1.023	15.577	60.662	53.886	57.976	40	73	
	CARN	80		USEL		· · · CT	. 0	7	41.000		1:134	6.000	9.000	38.222	43.778	37	45	
	CARN	80		USEL		CT	4	15		7:753								
	CARN	80		USEL								15.507	60.114	. 81.316	89.884		103	
					2	СТ	2		118.000		1.000	2.828	2.000	105.290	130.710		119	
	CARN	. 80		USEL	. 5	ALUT	-	39	64.462		2.059	25.714	165.308	60.303	68.620	40	104	
	CARN'	во		USEL	5	ASPR		. 7		7.480	2.827	14.960	55.952	66.502	80.355	64	86	
	CARN	80	2008	PACH	SPS	COHO	. 0	330	52.924	7.216	. 0.397	14.432	52.070	52.138	53.711	40	72	
LOGG	CARN	80	2008	PACH	SPS	COHO	.1	17	86.765	8.664	2,101	17.328	75.066	82.310	91.220	74	104	
LOGG	CARN	80	2008.	PACH	SPS.	RBT	. 0	61	46.262	5.639	0.722	11.278	31.797	44.818	47.706	38	64	
LOGG	CARN	80	2008	PACH	SPS	RBT	1 .	11	107.545		3.553	23.569	138.873	99.622	115.469	95		
LOGG	CARN	80		PACH	SPS	RBT	2	. 1	144.000		, 0.000	20.505	. 100.010	. 00.022	110,400	-00	127	
	CARN.	80		PACH.	SPS	RBT	-		221.000	*	30.00							
	CARN	80		PACH	SPS	ALUT		45		40 800					W 5			
	CARN									16.590		33.180	275.225	59.874	69.815	47	126	
		80		PACH	SPS	ASPR	-	81		23.090		46.179	533.135	75.092	85.303	43	174	
	CARN	80		RITH	5	CT	. 0	29		9:398	1.745	18.797	88.330	50.905	58.061	39	70	
	CARN	80		RITH	S	CT	1	9	106.778	12.019	4.006	24.037	144.444	97.524	116.032	89	130	
	CARN	, 80		RITH	S	CT	2	1	168.000									
LOGG	CARN.	80	2108	RITH	S	CT	3	1	200.000	5/ 1. "								

Appendix table XV. Fish length-weight data and condition factor (K).

Date		Location	Section	Species	n	age	К	a (×10-5)	b
4070		,				,			
1970								2	* *
	40	Carnation	150m	Coho	E 4		1.469	1.775	2.95
		Carnation			51		1.430		-
	1 .			Coho	44		1.430	2.668	4.45
Aug.	,	Carnation	11-2	Coho	. 9			1.969	2.94
			III		6			0.693	
		. 1	VII	Coho	8				3.20
		4	VIII	Coho	14			1.485	2.94
	40		Total	Coho	. 9		4 400	9.414	2.58
aug.	19	Carnation		Coho	14	0	1.435		
			Total	Coho	127		1.42	2.039	2.90
Aug.	20	Carnation	100m	Coho	26	0	1.404	3.206	2.79
Aug.	20	Carnation Carnation	500W		27	0	1.380	0.637	
Aug.	20	Carnation	2000m	Coho	16		1.441	1.478	2.99
Sept	. : 15	Carnation			35			3.99	2.74
			II	Coho	9	1		4.31	2.73
			III	Coho	28	0		3.56	2.78
			III	Coho	6	0		1.44	3.00
			III	Coho					3.01
			III	Coho	8			0.59	3.21
			VIII	Coho	27	0		2.98	. 2.81
			VIII	Coho		- 1		314.4	1.75
July	16	Carnation	150m	Rainbow	4	0	1.108	0.387	3.30
lug.	19	Carnation Carnation	Total	Rainbow		-			3:43
Aug.	20	Carnation	500m	Rainbow	22	0	1.083	0.552	3.18
Aug.	20	Carnation	2000m	Rainbow -	12	0	1.201	0.376	3.31
Sept.	. 15	Carnation	II	Rainbow	6	1+		0.452	3.22
			III	Rainbow	5	0		0.189	
			VIII	Rainbow	6	0		9.72	2.49
			VIII	Rainbow	15	1+		2.04	2.89
1971									
far.	18	Carnation	950m	Coho-			1.567	3.319	2.80
lar.	18	Carnation	1150m	Coho	3	0	1.087	0.009	4.31
		,		-	4	. 1	1.406	0.560	3.23
Mar.	19	Carnation	2100m	Coho	10	1	1.491		3.25
Har.		Carnation		Coho	13	0	1.195	0.352	3.33
					3		1.425	99.680	1.97
War.	18	Carnation	Total	Rainbow	5		1.120	0.800	3.07
	1 20			Coho			1.558	0 770	2.86
Apri		Carnation	1000m	Coho			1.130	2.326	2.80
		30		,	7	4	4 424	107.600	1 89
Apri'	1 20	Carnation	1700m	Coho		0	1.190	102.000	1.77
		531 110 1 1011		03/10	17	1	1.465		3.23
	В	Carnation	000-	Coho				0.141	3.56

Appendix table XV (cont'd)

:	Date	4,0	Location	Section	Species .	n	age	K	a (x10-5)	ь
				4500-	Cabi	40		-1.029-	0.304	3.34
	May 8		Carnation	1500m	Coho	42	0			
	June		Carnation	GOOM	Coho	42	0	1.080	0.246	3.40
	-	1	Carnation	900m	Coho	- 57	0	1:063	0.034	3.94
	June :		Carnation	1500m	Coho	55	0	1.095	3.975	2.64
	June		Carnation	890m	Coho	11	0	1.056	35.260	2.04
	June	10	Carnation	900m	Coho	40	0	1.006	0.134	3.55
						.2	1	1.441	0.181	3.51
	June	10	Carnation	2000m	Coho .	10	0	1.080	0.006	4.41
	June	11	Carnation	550m	Coho	9	0	1.134	0.000	6.31
	June.	11.	Carnation	900m	Coho	40	0	1.006	0.013	4.18
	June	11	Carnation	1500m	Coho .	14	0	1.091	0.001	4.91
	June		Carnation	1270m	Coho	4	0	0.937	0.059	. 3.76
	June		Carnation	620m	Coho	35	0	1.055	0.212	3.44
*	June		Carnation	1270m	Coho	50	0	1.010	10.100	2.37
	June		Carnation	2380m	Coho :	30	0	1.121	0.088	3.69
	June		Carnation	500m -	Coho	7	0	1.241	0.031	3.99
	June		Carnation	2460m	Coho.	11	0	.1.293	0.160	. 3.55
*	June		Carnation.		Coho ·	11	0	1.217	1281.000	1.14
	June		Carnation	3100m	Coho	13	o	1.237	10.280	2.42
	June		Carnation	900m	Rainbow	5	1	1.307	7.123	2.60
	June		Carnation	1500m	Rainbow	2	2 .	1.266	0.853	3.08
	June		Carnation	3100m	Rainbow	6	1	1.353	Q. 148	3.50
			Carnation	2460m	Rainbow	2	2	1.366	296.100	1.84
	June			100m	Coho	14	ő	1.134	0.029	3.98
	July		Carnation							
	July	12	Carnation.	400m	Coho	15	0	1.164	0.339	3.33
						.5		1.344	0.868	3.10
	July		Carnation	-600m	Coho-	48	0	1.226	0.159	3.55
	July		Carnation	900m	Coho	36	0	1:177	0.087	3.70
	July		Carnation	1500m	Coho .	11	0	1.154	0.008	4.36
	July		Carnation	900m	Coho	8	0	1.208	0.013	4.20
	July		Carnation	900m	Coho	26	0	1.167	0,101	3.65
	July.	13	Carnation	600m	Rainbow	4	0	0.996	0.000	6.25
	July	13	Carnation	1500m	Rainbow	30	0	0.952	0.283	3.34
	July	28	Carnation	900m	Rainbow	. 11	0	1.065	0.394	3.27
			·			. 3	1	1.264	1.049	3.04
	Aug.	3 .	Carnation	400m	Coho	12	0	1.205	0.013	4.21
	5					3	1	1.432	3.397	2.79
	Aug.	4	Carnation	525m	Coho "	32	0	1.279	0.696	3.16
	7		1	2		12	1	1.481	7.677	2.61
	Aug.	6	. Carnation	630m	Coho	. 4	0	1.417	16.550	2.37
				*.	145	- 3	1	1.436	2:047	2.91
	Aug.	6	Carnation	890m	Coho ·	14	0	1.150	0.005	4.46
	Aug.	6	Carnation	1450m	Coho	6	0	1.198	0.004	4.53
			34			2	1	1.647	1.533	3.01
	Aug.	24	Carnation	620m	Coho	- 29	0	1.229	0.058	3.81
	Aug.	24.	Carnation	900m	Coho	21	0	1.162	0.254	3.40
	Aug.	24	Cannation	1450m	Coho	. 34	o	1.172	0.100	3.65
	Aug.	24	opinia Cion	-4 JOIII	00110	. 04	0	4	0.100	0.00

Appendix table XV (cont'd)

Date	÷ .	Location	Section	Species	·. n.	age	K	a (x10-5)	b
Aug.	3	Carnation	400m	Rainbow	4	0	0.980	73.130	1.76
				1.1	2	1	1.224		
Aug.	4	Carnation	525m	Rainbow	. 35	.0	0:975	0.068	3.74
_			. *		9 :	1	1.298	3.528	2.76
Aug.	6	Carnation	630m	Rainbow	2	0	1.097	0.184	3.49
Aug.	6	Carnation	1450m	Rainbow	4	0	1.052	0.006	4.43
Aug.	24	Carnation	620m	Rainbow	14	0	1.012	0.172	3.48
Aug.	24	Carnation	900m	Rainbow	15	. 0	1.044	0.221	3.43
Aug.	24.	Carnation	1450m	Rainbow	32	0	0.960	0.020	4.07
Sept.	. 15	Carnation	IIBIII	Coho	. 7	0	1.361	0.095	3.67
Sept:	. 15	Carnation	11	Coho	5	1	1.508	77.080	2.07
Sept.	. 15	Carnation	III	Coho	4	1	1.493	4.846	2.72
Sept.	. 15	Carnetion	IV	Coho	3	0	1.298	0.000	7.05
Sept.		Carnation	VI	Coho :	6	0	1.234	0.480	3.24
Sept.		Carnation	VIII	Coho	7	0	1.366	0.332	3.36
Sept.		Carnation	II-IV	Rainbow.	19	0	1.122	0.355	3.31
Sept.	. 15	Carnation	IISIV	Rainbow	2	1	1.491	0.000	5.21
					3	2	1.267	7.559	2.61
Sept.	. 15	Carnation	VIII	Rainbow	15	0	1.055		4.06
			٠.		5	1 .	1.292	0.986	3.06
Sept.		Carnation	VI	Rainbow	2	2	1.351	0.106	3.53
Sept.	. 14	Frederick -	-	Coho	13	0	1.433	0.334	3.37
* )					3	1	1.480	34.540	2.25
Sept.	. 14	Pachena		Coho	4	0.	1.443	0.775	3.16
		* * .			9	0	1.601	1.169	3.07
***			•	*	3.	1	1.585	1.270	3.04
Sept.	. 14	Pachena	-	Rainbow	12	0	1.327	34.340	2.15
			***		5 .		1.482	1.122	3.05
Sept.		N. Pachena		Coho	5		1.499	0.329	3.36
Sept.		N. Pachena	•	Rainbow		1	1.174		
Aug.		Ritherdon	-	Cutthroat	2.	1	1.195	0.198	3.44
Sept.	. 9	Ritherdon	-	Cutthroat	15	0	1.210	1.539	2.94
					12	1	1.294	5.879	2.66
Sept.	. 10	Ritherdon	-	Cutthroat	3	2	1.268	1624.000	1.48
	40				5	3	1.278	3.694	2.78
Sept.		Carnation	VI	Cutthroat	7	1	1.324	1.099	3.03
Oct.		Carnation	300m	Coho	35	_	1.297	0.274	3.40
Oct.			890m	Coho	22	0	1.246	32930.000	0.35
Oct.		Carnation	1450m	Coho:	35	-	1.299	0.275	3.41
Oct:		Carnation	890m	Rainbow	25	0	1.180	0.777	3.11
Oct.	. 6	Carnation	1450m	Rainbow.	24.	0	1.180	0.179	3.50
						**			
1972			***	*	5				
1912					22.00		*		
May :	24	Carnation	Total	Coho				0.079	3.71

Date	Location	Section				K	a (×10-5)	ь
June 19	Carnation	Total	Coho		0	***	0.079	3.71
					1		0.84	
Aug. 1	Carnation	Total	Coho		0		0.279	
					1		7.47	
Sept. 12	Carnation	Total	Coho		0		0.113	3.62
		14	6.5		1	• •	7.58	2.61
May 25	Carnation	Total	Rainbow		1		3.977	
June 20	Carnation	Total	Rainbow		1		0.88	3.09
Aug. 1	Carnation	Total	Rainbow		0		0.091	
					1		1.67	2.94
*.					2		0.63	3.14
Sept. 11	Carnation	Total	Painbow		0 :		0.165	3.51
					o		1.316	3.51
** .	* *			. *	1		4.39	3.00
					2		0.363	
Aug 3	Carnation	Trib 1600	Coho '		ō		0.279	
aug. o	Cai na c i Oii	11 10 1000			1		. 7.47	2.62
Sent 13	Carnation	Trib 1600	coho		ò		0.129	
sept. 10	oar nat ron	11 10 1000	COITO		1		7.577	
Aug 3	Ritherdon		Cutthroat		ò		1.46	2.01
Aug. 3	A I CHAI GOII	_	Cottinoat		1		E 00	2.00
					2		1.46 5.88 2.32	2.00
A 22	Heeless		Coho		ō		0.113	2.67
Aug. 23		-			ŏ	:.		0.04
Aug. 23	Pachena	-	Coho		0		0.846	3.14
			Rainbow				31.3	2.15
			Rainbow		1		1.1	3.05
4070								1
1973			*					
May . 17	Carnation	Fence ·	Coho	18	1	0.978	2.262	2.81
				21	2	0.978	0.440	
May 23	Carnation	Fence	Coho ·	29	1	0.980	1.236	
				5		0.903	0.322	
June 28	Carnation	III	Aleuticus				.0.921	
Aug. 15	Carnation	50m	Aleuticus	9	0	0.786	0.454	
				45		0.899		
	,			12		1.038	4.820	
Aug. 15	Carnation	50m	Asper	16	ō.	0.828	0.171	
. 1.				42	4	1 013	0.756	
				31	2	1.064	0.672	
				17	3	1 090	0.078	
June 20	Carnation	V1	Coho	10	0	1.090	0.041	
June 20	Carnation	V2	Coho	11	0	0.945	0.108	3.57
June 20	Carnation	V3	Coho	12	0 .	0.937	0.290	3.31
June 20	Carnation	VA	Coho	12	0	0.918 1.003 1.091	0.108 0.290 0.300	3.29
	Garrier (Of)		COLID	146	0	J. J. 10	0.300	3.43
June 20	Cannation	VE	Coho	4.4	0	1: 002	0.049	3.78

Appendix table XV (cont'd)

Date	Location	Section	Species	n	age	K	a (x10-5)	b
	· · · ·			٠.				
Aug. 22	Carnation			.14	0	1.054	0.234	3.38
Aug. 22	Carnation	V2	Coho -	15	.0	1.012	0.223	3,38
Aug. 22	Carnation	V3	Coho	13	0	0.982	0.780	3.05
Aug. 22	Carnation	V4 .	Coho	16	0 .		0.645	3.11
Aug. 22	Carnation		Coho	15		1.034	1.576	2.89
lug. 22 .	Carnation	V1-5	Coho-	15	1	1.113	0.533	3.17
lug. 22	Carnation	V1,2,5	Rainbow	. 6	0 .	0.887	0.521	3.13
lug. 22	Carnation	V3	Rainbow	. 8	0	0.894	0.065	3.69
lug. 22	Carnation	V4	Rainbow	. 6		0.879	0.450	
lay 18	Carnation	III	Coho	16:	0	0.807	0.027	3.92
				. 5	1	1.012	0.070	3.66
June 28	Carnation	III	Coho	12	0	1.107	0.208	3.44
				10	1	1.221	1.414	2.96
lune 27.	Carnation .	· 1V	Coho	10	0	0.968	0.098	3.61
				10	1	1.152	1.751	2.90
lug. 8	Carnation	III	Coho	17	0	1.078	0.294	3.33
				. 12	1	1.184	1.630	2.92
ept. 10	Carnation	11	Coho	9	0	1.126	0.177	3.46
ept. 12	Carnation	III.	Coho	10		1.120	1.552	. 2.91
. 4				7	1	1.216	0.341	3.25
ept. 11	Carnetion	IV	Coho	14	. 0	1.122	3.326	2.72
ept. 11	Carnation	V	Coho	- 8	0	0.938	0.006	4.25
ept. 10	Carnation	VI	Coho	9	:0	1.124	1.220	2.98
				8	. 1	1.143	3.753	2.72
ept. 10	Carnation	VIII	Coho .	8	0	0.987	0.932	3.01
						1.123	1.249	2.97
	Carnation	II,IV.VI	Coho			1. 186	3.879	2.72
ug. 8	Carnation	III	Rainbow	6	0	1.072	3.990	2.64
				3	1	1.012	18.330	2.38
ept. 10	Carnation.	11	Rainbow		.1	0.945	0.121	3.45
ept. 11	Carnation	٧	Rainbow	. 8	0	0.817	0.074	3.61
ept. 10	Carnation	VI.	Rainbow	6.	. 0	0.906	3.419	2.65
ept. 10	Carnation	VIII	Rainbow	10	0	0.883	2.991.	2.67
				. 4	1	0.863	0.000	4.75
	Carnation	V,VI	Cutthroat	4		0.953	0.065	3.53
ug. 31	Carnation	IX	Cutthroat .	12.	0 .	0.841	0.513	3.14
				5	1 .	0.940	0.356	3.21
				8	2	0.923	. 1.547	2.89
				5	3	0.951	0.144	3.38
ept. 10	Carnation	. Trib C	Cutthroat .	9	1	1.024	52.220	2.11
			;	9	2 .	0.993	0.023	3.79
ept. 11	Carnation	Trib 1600	Coho	10	0	0.992		
				5	1 .	1.157	0.041	3.77
ept. 11	Carnation	Trib 1600	Cutthroat	2	2	0.919	0.056	3.55
ug. 30	Useless	-	Coho ·	2	0	1.360		-
				2	1	1.257	0.001	4 65

Appendix table XV (cont'd)

Date	Location	Section	Species	n	age	K	a (×10-5)	b
Aug. 30	Useless		Cutthroat	9	0	1.033	0.029	3.91
				12	1	0.999	8.300	2.54
				3	2	0.975	0.706	3.06
Aug. 31	Frederick	-	Coho	14	0 .	1.073		3.28
		,		7	1	1,120	0.225	3.37
Aug. 29	Pachena	-	Coho	11	. 0	1.074	0.136	3.51
				8 -	1	1.130	1.763	2.89
Aug. 29	Pachena	· - · · · · · ·	Rainbow	15	0	0.903	2'. 282	2.76
				4	*	0.983	0.722	3.06
lug. 30	Ritherdon	-	Cutthroat	17	0	0.960	1.314	2.92
		٠.		. 15	1	0.982	0.461	3.16
		1		2	2	0.915	4810.000	1.29
1974	, m + 1 ,		3 11					
pril 20	Carnation	Fence	Coho	28	1	0.997	0.204	3.37
			* *	12		1.027	0.128	3.46
lay 6	Carnation	Fence ·	Coho	2	1	1.027	0.007	4.18
				31	. 2	1.037	0.334	3.24
lay 20	Carnation	Fence	Coho	32	1	1.008	0.555	3.13
				53	2.	1.045	1.281	2.95
lune 5	Carnation	Fence	Coho	14	1 .	1.099	0.022	3.91
				. 4	2	0.990	0.317	3.25
lay 20	Carnation	400m	Coho	14.	. 0 .	0.844		4.27
June 19	Carnation	400m	Coho .	16	0.	0.965	0.047	3.80
July: 26	Carnation	400m	Coho	13	0	1.012	0.582	3.14
2		**		3	1 .	1.145	0.230	3.37
ug. 21	Carnation	400m	Coho	15	0	0.973	0.138	3.50
	,			2	1	1.061	0.000	6.43
June 19	Carnation	400m	Rainbow	. 2	1	0.954	1077.000	1.34
July 26	Carnation	400m	Rainbow	2	1	0.916	0.056	3.60
ug. 21	Carnation	400m	Rainbow	2	1	1.020		
lay 20	Carnation		Aleuticus	7	ALL	1.002	0.131	3.49
lune 19	Carnation	400m.	Aleuticus	10	ALL	1.060	Q.993	3.01
July 26	Carnation		Aleuticus	11	ALL	1.001	0.103	3.51
ug21	Carnation		Aleuticus	9	ALL	0.920	0.445	3.18
July 26	Carnation		Asper	2	ALL	1.237	0.006	4.12
ug. 21	Carnation	400m	Asper	3	ALL	0.817	0.001	4.50
lay 30	Carnation	V1	Coho	13	.0	0.846	0.002	4.63
		for a		2	:1	1.074	1.069	3.00
lay 31	Carnation	V2	Coho	12		0.843.	0.017	4.05
lay 31	Carnation		Coho	16		0.830		4.53
lay 31	Carnation	V4	Coho			0.865	0.018	4.03
lay. 31	Carnation	V5	Coho	13		0.853	0.157	3.45
lay 30	Carnation	V1	Rainbow		1.	0.925	0.301	3.27
lay 31.	Carnation	V2	Rainbow		<b>11</b> :	0.960	0.015	3.99
lay 31	Carnation	V5	Rainbow	4	1 .	1.004	2.144	2.81
			* * * * .	2		1.005	0.181	3.37
lay 31	Carnation	. V2	Aleuticus	5	ALL .	1.073	0.092	3.55

Date	Location	Section	Species	n	age	K	a (x10-5)	ь
May 31	Carnation	V4 .	Aleuticus	3	ALL	0.981	0, 183	3.38
May 31 May 21	Carnation	V5	Aleuticus				0.827	
May 21	Carnation		Coho		0	0.867		
				14		1.096		2.86
May 29	Carnation	VI	Coho	9		0.862		3.95
,						1.076		
June 19	Carnation	17	Coho	17	ò	0.985		
	00111011	••		-	ĭ	1.129		
duly 23	Carnation	VT	Coho	9		1.010		
			0010	6		1.142		
hily 25	Carnation	**	Coho	11		1.153	0.347	2.44
0419:20	out that for	••	COILD	8				3.30
Aum. 16	Carnation	**	Coho	24		1.115	0.550	3.16
AUG. 10	Carriation	11	Cono	7		1.040	0.781	3.07
Sant 16	Connection	**	Coho		1	1.138		-
sept. 16	Carnation	11	Cono	- 11	0		1.262	2.96
F 40	Carnation			7	1	1.088		3.00
Sept. 18	Carnation	AI	Coho	11	0	1:052	1.073	2.99
		***		6	1	1.184	89.630	2.00
	Carnation	IV	Coho	8				
Oct. 18	Carnation	V .	Coho	. 7	0	1.056	0.749	
- 4	_	•		Э	1	1.114	31.630	
Oct. 18	Carnation	VIII	Coho	4	0	1.076	0.130	3.53
Oct. 22	Carnation	11	Coho	10	0	1.019	2.056	2.83
May 29	Carnation Carnation	VI	Rainbow	2	1	0.882	0.323	3.25
June 19	Carnation	II.	Dainbou	2	4	0 000	9.524	2.46
July 23	Carnation	VI.	Rainbow	2	0	0.750	0.011	4.19
	1			- 2	1	0.954	3.012	2.73
July 25	Carnation	II	Ratinbow	3	0	0.821		3.33
		*		4	1 .	0.946	10.720	2.44
			:	4.	2	0.948	0.733	3.05
Aug. 16	Carnation	II	Rainbow	2	0	0.871	0.053	
				2	2	0.925	0.626	3.08
Sept. 16	Carnation	11	Rainbow	2	0	1.049	2.737	2.75
				- 5	1	1.015	1.070	2.99
Sept. 18	Carnation	VI	Rainbow	7	0	0.924	0.996	2.98
	17.					0.078		2.84
July 23	Carnation	IIAVI	Cutthroat	2	182	0.928		1.17
Sept. 16			Cutthroat	2	182	1.022		2.98
May 29	Carnation		Aleuticus	. 2	ALL	0.936	0.001	4.63
hine to	Connection	**	A 2 A 4				0.367	3.23
July 23	Carnation	VI	Aleuticus Aleuticus Aleuticus	6	ALL	1.115		4.04
July 25	Carnation Carnation	11	Alauticus	12	ALL	1.059		
Aug. 16	Carnation	11	Alouticus	7	ALE	1.010		3.48
Sept. 16	Carnation	7.7	Aleuticus	40	ALL	1.010		3.00
Jep 4. 10	Carnation		ATOUTTCUS	10	ALL	1.061	0.194	3.40
lune 19	Carnation Carnation	77	Aleuticus Asper	9	ALL	0.024	0.257	3.30
			Asper					3.15

Date	Location	Section	Species	n	age	K	a (x10-5)	<b>b</b> .
June 19	Carnation	TX	Cutthroat	. 5	1	0.957	0.952	3.00
					2	0.998		2.83
				4	3	0.912		. 1.87
Sept. 20	Carnation	TX	Cutthroat	6	0	0.932	0.236	3.37
				- 5		0.956		2.63
				7	2	0.952	3.751	2.71
					3	0.934	73.570	2.12
June 20	Carnation	Trib C	Cutthroat	3	0	1.527		
,				5		1.091	151.700	. 1.85
				4	2	1.000	. 1.587	2.90
				2	3	1.014		3.78
Sept. 18	Carnation	Trib C	Cutthroat		0	0.867	1.247	2.91
				9	. 1	0.989	1.910	2.85
			1 1 200 14	2	2 ·	1.008		
				. 2	. 3	0.968	1061.000	1.61
June 20	Carnation	Trib 1600	Coho	7		1.136	0.687	3.13
				8	1	1.250	2.045	2.88
Sept. 19	Carnat fon	Trib 1600	Coho	12	0	1.047	0.413	3.23
				7	1	1.218	4.404	2.70
Sept: 19	Carnation	Trib 1600	Cutthroat	3	1		2.684	2.75
				2	3	1.038	0.475	3.15
Aug. 27	Useless	-	Coho	4	0	1.076	1.118	2.99
	Use less		Cutthroat	4			28.390	2.13
				5	1.	1.092	12.350	2.44
4.				2	2	0.963		
			. •	2	3	0.973	0.783	3.04
Aug. 27	Useless	-	Aleuticus	11	ALL	1.169	0.118	3.52
Aug. 28	Pachena	-	Coho .	6	0	1.057	1.650	2.89
				.3	1	1.102	0.542	3.16
Aug. 28	Pachena	-	Rainbow		0	0.999	2.322	2.77
				3	-1	0.917	. 3.786	2:69
Aug. 28	Pachena	-	Aleuticus	5	ALL	0.961	0.322	3.26
Aug., 28	Pachena	-	Asper .	8	ALL	1.132	0.262.	3.32
Aug. 28	Frederick		Coho		0	1.084	1.465	2.93
Aug. 28	Frederick	-	Aleuticus	8	ALL	1.001	1.347	2.92
Aug. 28	Frederick	-	Asper				2.962	2.79
Aug: 29	Ritherdon	-	Cutthroat.	7	0	1.038		2.78
		1				0.938		2.51
						0.932		2.93
1.1				3	3	0.973	4950.000	1.32
		14	*****					
1975								
1.4				,				
April 10	Carnation	Fence	Coho			0.737	0.158	
			1	17	1	1.039	0.716	
				5	2 .	1.023	0.034	3.77
Apr 11 25	Carnation	Fence	Coho		1	1.024	2.708	2.76
,	. 1 .			5.	2	1.013	3.367	2.73

Date	Location	Section	Species	n	age	K	a (x10-5)	ь
April 30	Carnation	Fence	Coho	16	1	1.048	0.308	3.28
		• • • • •		4	2	1.125	3.754	2.73
May 20	Carnation	Fence	Coho	9	1	1.006	0.526	3.15
				11	2	0.996	4.278	2.68
May 30	Carnation	Fence	Coho	7	1	0.974	1.984	2.83
				4	2	0.982	3.735	2.71
Apr.11 28	Carnation	400m	Coho	16	0	0.829	9.384	2.33
				2 .	182	1.076	3.152	2.75
Sept. 25	Carnation	.400m	Coho	12	. 0	0.962	34.240	2.12
				2	1	1.033	0.091	3.55
April 28	Carnation	400m	Aleuticus	7	ALL	0.958	0.585	3.11
Sept. 25	Carnation	400m	Aleuticus	15	ALL	0.928	2:407	2.77
Sept. 25	Carnation	400m	Asper .	5	ALL	1.194	. 0.003	4.23
Jan. 16	Carnation	11	Coho	11	0	1.019	. 1.084	2.98
				3	1	1.061	22030.000	0.70
Mar. 10	Carnation	11	Coho	12	1	.1.106	1.709	2.89
				3.	2	0.969	0.085	3.55
May 21	Carnation	II .	Coho	6	0	0.942	0.478	3.18
				5	182	1.063	3.700	2.70
May 21	Carnation	VI .	Coho	7	0	0.818	0.004	4.44
				2	1	1.003	2.872	2.73
June 17	Carnation -	II	Coho	14	0	0.929	0.078	3.65
July 21	Carnation	II	Coho	8	0.	1.057	0.527	3.17
			. 1	5	1	1.176	1.154	3.00
July 22	Carnation	VI	Coho	9	0	1.072		3.04
2.1				.7	1	1, 133	3.420	2.73
Sept. 18	Carnation	II	Coho	12	0	1.007	.0.426	3.21
				8	1 -	1.138	0.005	4.25
Sept: 17	Carnation	VI	Coho	. 12	0	1.042	1.137	2.97
				8	1	1.107	0.287	3.30
Nov. 19	Carnation	II	Coho	11	0	1.232	1.282	2.99
				3	1	1.137	40	
May 21	Carnation	VI	Rainbow	2	1	0.988	0.390	3.23
July. 21	Carnation	IIAVI	Rainbow	- 6	0	0.844	0.795	3.01
July 22	Carnation	VI	Rainbow	3	1	1.036	1.379	2.93
July 21	Carnation	II&VI	Rainbow	3	2	1.002	28.800	2.28
Sept. 18	Carnation	II	Rainbow	7	0	0.955	0.621	3.10
				4	1	0.981	0.359	3.22
Sept. 17	Carnation	IIAVI	Rainbow	4	2	1.000	1094.000	1.51
Sept. 17	Carnation	VI	Rainbow	10	0	0.953	0.551	3.13
				6	1	0.987	0.633	3.09
July 21	Carnation	IIBVI	Cutthroat	4 .		0.994	63.900	2.13
				3	3	1.026	6.746	2.62
Sept. 17	Carnation	VI	Cutthroat	2	1	0.942	3.321	2.71
				2	2	0.909	1.833	2.85
Sept. 17	Carnation	II&VI	Cutthroat	3 .	3	0.984	0.093	3.46

Date	Location					K	a (x10-5)	b
June 18			Cutthroat	7:	1	0.953	0.926	3.01
				7	2 .	0.990	1.689	2.88
				2	3	0.871	41200.000	0.84
Sept. 20	Carnation	IX ·	Cutthroat	5	0	0.814	1.959	2.76
14				4	1	0.964	8.645	2.49
** . *				6	. 2	0.916	0.669	3.06
				2	3 :	0.937	74.890	2.13
Sept. 18	Carnation	Trib C	Cutthroat	8	0	0.959	0.610	3.12
	1.			7		0.972	8.426	2.52
				- 5	2	1 011	20.050	2.37
Sept. 17	Carnation	Trib 1600	Coho	13	0	1.047	0.739	3.08
				5	1	1,100	1.839	2.88
May. 21	Carnation	II .	Aleuticus			1,020	2.597	2.78
May 21	Carnation	VI	Aleuticus	2			0.773	
			Aleuticus	11	ALL			2.52
July: 22	Carnation	VI	Aleuticus			1.078	0.258	3.32
Sept. 18	Carnation		Aleuticus					
Sept. 17	Carnation		Aleuticus			1,102		3.60
July 21	Carnation	** .	Aspen	-		0 070	0 540	3.15
Sept. 18		II	Asper	16	ALL	1.088	0.025	3.82
Aug 25	Useless		Coho	7	0	1.020	0.604	3.12
Aug. 25 Aug. 25	Useless		Cutthroat			0.939	1.147	2.94
					1		4.666	2.65
					283			3.27
Aug. 25	Useless		Aleuticus			1,098	0.490	3.19
Sept. 19	Frederick		Coho		0	1.071	1.865	2.86
3000						1.029		4.40
Sept. 19	Frederick	-	Rainbow		o	0.987	0.356	3.25
Sept. 19	Frederick		Aleuticus					3.01
Sept. 19	Frederick		Asper			1.077		3.16
Sept. 19	Pachena	-	Coho		0	1.054	0.659	3.11
Jept. 15	, 00.10110		00110			1.081	0.545	3.15
Sept. 19	Pachena		Rainbow		o		0.674	3.08
30pt. 13			, a moon			1.185		2.74
Sept. 19	Pachena		Aleuticus					3.32
Sept. 19	Pachena		Asper			1.070	0.330	3.25
Sept. 20			Cutthroat .					3.04
3ept. 20	K I CITE COIT		out till out		1.			3.19
						0.927		3.22
			7.5	-		0.04.	0.000	
1976	. , 1 .							
1376							** **	
Apr 11 30	Cannation	Fence	Coho			0.996	1.479	2.90
Apr 11 30	carnation		CONO.			0.981	1.039	2.98
May 20	Cannation	Fence	Coho			1.008	0.357	
may 20	CHITIMETION	rence	COING		1	1.000	0.337	3.24
				78	2	0.005	2.014	2.84

Appendix table XV (cont'd)

Date	Location	Section	Species	n	age	K	a (x10-5)	b
May 20	Carnation	11:	Coho	12	0	0.830	0.045	3.78
				11	182	1.050	1:657	2.89
Nay 18	Carnation	VI	Coho	11	0	0.912	0.013	4.13
July 15	Carnation	II	Coho	16	0	1.033	0.032	3.91
		•.	*	8	. 1	1.117	29.680	2.24
July 13	Carnation	VI	Coho	14	0	0.963	0.277	3.33
				11	1 .	1.089	0.806	3.06
Sept. 20	Carnation	II	Coho	14.	0	1.062	0.859	3.05
	* *			7	1 .	1.099	0.658	3.11
Sept. 23	Carnation	VI.	Coho	12	0.	1.069	2.393	2:79
				. 7	1	1.112 .	3.164	2.75
Nov. 9	Carnation	II	Coho	10	0	1.139	0.084	3.63
May 18	Carnation	VI .	Rainbow	10	1	0.898	0:128	3.48
July 15	Carnation	II	Rainbow	8	0 .	0.732	0.000	5.25
				3	1	0.938	14.980	2.35
July 13	Carnation		Rainbow	.3	2	1.062	232.600	1.85
July 13 :	Carnation	VI	Rainbow	10	1	0.990	3.485.	2.71
Sept. 20	Carnation		Rainbow	12	0	0.901	0.093	3.59
Sept. 20	Carnation	VI	Rainbow	11	1	0.970	1.643	2.88
Sept. 20	Carnation	IIAVI.	Rainbow	4	2	0.958	0.563	3.11
July 13	Carnation	IISVI	Cutthroat	5		0.906	0.827	3.02
Sept. 20	Carnation	IIBVI	Cutthroat	6	1-4	0.923	0.317	3.20
June 22	Carnation	IX	Cutthroat	6	1 .	0.961	2.378	2.78
**				5	2	1.014	0.257	3.29
				3	3	0.973	1.032	2.98
Sept. 24	Carnation	IX	Cutthroat	8	0	0.860	0.312	3.27
		****	**	8	1	0.986	0.909	3:01
				8	283	0.995	5.667	2.64
June 23	Carnation	Trib C	Cutthroat	8	1	1.066	1.759	2.88
			·	4	2	1.215	0.022	3.86
Sept. 22	Carnation	Trib C	Cutthroat	- 8	0	1.022	4.128	2.97
				9	1	0.978	8.452	2.51
h-ma 00:		T- 15 4000		5	2	1.108	0.681	3.10
June 23	Carnation	1F1D 1600	Cono	. 7	. 0	0.943	0.002	4.71
Comt 22	Connection		Oaks :	. 5	1	1.162	4.859	2.65
Sept. 22	Carnation	1110 1600	Cono	12	0	1.044	0.667	3.11
Sept. 22	Connection	T-45 4000	0	8	1	1.155	1.133	3.00
Sept. 22	Carnation	11.10 1900	Cutthroat	5	0	0.949	0.356	3.25
May 20	Carnation	11	Alaukia	3	1	1.017	0.849	3.04
July 15	Carnation	II	Aleuticus	10	ALL	0.976	0.418	3.20
July 13	Carnation	VI .	Aleuticus	15	ALL	1.051	0.398	3.23
Sept. 20	Carnation	II ·	Aleuticus		WFF	1.040	0.129	3.46
Sept. 20	Carnation	VI	Aleuticus	18	ALL	1.042	0.621	3.12
July 15		II	Aleuticus	9		1.104	53.620	2,14
Sept. 20	Carnation	11	Asper	- 8	ALL	1.077	0.387	3.22
		11	Asper	10	ALL	1.130	0.010	4.01
Aug. 25	Useless		Coho	8	0	1.025	0.304	3.31

Date	Location	Section	Species	n	age	K	a (x10-5)	b
Aug. 25	Useless		Cutthroat			0.925	2077.000	1.23
nug. 25	oseiese .		, oo cen oac	3	2	0.901		1.50
						0.980		
lug. 25	Useless		Almiticum			1.024	0.048	3.70
Num 24	Enader tok		Coho	13		1.095		
lug. 24	Frederick Frederick		Rainbow	5	-	0.960	12.860	2 34
ug. 24	Frederick	-	Alouticus			1.010	0:207	3.39
ug. 24	Frederick	-	Asper			1.068		
lug. 24	Pachena		Coho			. 1.035	0.584	
			١.			1.147		
lug. 24	Pachena	- 1	Rainbow	6		0.907	0.976	2.98
						0.912	7.629	2.51
ug. 24	Pachena		Aleuticus					
ug. 24	Pachena	-	Aleuticus Asper Cutthroat	15	ALL	1.087	0.145	3.44
lug. 26	Ritherdon	-	Cutthroat	10	0 .:	0.965	0.752	3.0
				8	1	0.972	1.511	2.90
			· 25	. 6	2	1.005	0.022	3.80
ec. 21	Carnation	II .	Coho	8	0 .	1.125	2.831	2.77
	,	ti.		. 2	1	1.036	25.690	2.28
A								
977							,	
				11.5				
pril 12	Carnation	Fence	Coho	12	1	0.991	1.205	2.9
					-			
lay: .1	Carnation	Fence	Coho	12	1	1.028 0.975 0.958 0.967	2.427	
				15	2	0.958	1.267	
lay 19	Carnation	Fence	Coho	- 13	1	0.967	28.900	
				12	2	0.954	1.431	
Mar: 25	Carnation	II	Coho	. 11		1.139	0.235	
	Carnation		Coho			1.030		3. 19
				6		1.090		
tay 17	Carnation	VI	Coho:	10		0.982		
				4.		1.106		2.64
June 13	Carnation	II	Coho	40	-	4 007	0 007	3.12
				2	1	1.085	0.155 0.845	3.45
July 21	Carnation	11	Coho-	11	0	1.122	0.845	3.07
,	: •		1	5	. 1	1.128	1.033	3.02
July 19	Carnation	VI:	Coho	114	0	1.223	3.734	2.72
			. 4.	4	1	1 . 175	15.380	2.39
ept. 29	Carnation	II	Coho	14	0	1.086	0.586	
				10	1 .	1.124	0.812	3.07
ept. 27	Carnation	VI	Coho	. 15	0	1.088	2.368	
ient 27	Carnation	VI	Cobo	6	.1 .	1.113	22.890	2.3
Dec. f	Carnation	II	Coho	. 10	. 0	1.276	16.090	2.41
lay 19	Carnation Carnation	II :	Rainbow	. 3	182	0.940	1.235	2.93
July 19	Carnat.ion	IIAVI	Rainbow	. 7	1.2	1.070	5.001	2.66
Sept. 27	Carnation		Rainbow		0	1.013	1.190	2.96

Date:	Location	Section	Species	n	age	K	a (x10-5)	ь
Cont 27	Carnation	IIAVI	Rainbow	6	1	1.025	1,956	2.85
Sept. 21	Carnacion	11941	Rairbow	.11	2	1.013	0.283	3.27
July 19	Carnation	IIAVI	Cutthroat	6	1-4	0.915	1.022	2.97
	Carnation	IIAVI	Cutthroat	7	2-4	0.880	0.268	3.23
Sept. 27	Carnation		Aleuticus	10		1.061	3.725	2.69
May 19 June 13	Carnation		Aleuticus		ALL	1.015	2.638	2.76
			Aleuticus	11				
July 21	Carnation			16	ALL	1.091	0.985	3.03
July 19	Carnation		Aleuticus	6	ALL	1.183	159.600	1.92
Sept. 29		11	Aleuticus	20	ALL	1.059	1.754	2.89
Sept. 27	Carnation	VI	Aleuticus	10	ALL	1.191	0.737	3.10
July 21	Carnation		Asper	7	ALL	1.531	2.067	2.89
Sept. 29	Carnation		Asper	13	ALL	1.081	2.212	2.84
June 10	Carnation	IX	Cutthroat	14	1	0.948	0.517	3.14
				10	2	0.957	0.518	3.13
Sept. 28	Carnation	IX	Cutthroat	12	0	0.859	0.165	3.43
				15	1	0.968	1.037	2.98
				. 5	2	0.967	0.528	3.12
June 8	Carnation	Trib C	Cutthroat-	14	1	1.059		2.98
				. 4	283	1.116	1.254	2.97
Sept. 27	Carnation	Trib C	Cutthroat	10	.0	0.963	6.389	2.50
				. 12	.1.		1.383	2.91
				. 4	283	0.930	0.580	3.09
lug: 29	Useless	-	Coho	9		1.126	4.552	2.66
Aug. 29	Useless	-	Cutthroat	3	0	0.967	0.864	3.03
				- 6	1	1.051	17.220	2:35
				4	2	0.962	2.278	2.84
Aug. 29	Useless		Aleuticus:	18	ALL	1.024	0.444	3.19
Aug. 30	Frederick	-	Coho.	16	.0 :	1.096	1.330	2.95
Aug. 30	Frederick		Rainbow	· 7.	0 .	0.986	0.423	3.21
Aug. 30	Frederick	-	Asper	21	ALL	1.031	0.279	3.31
Aug. 30	Pachena	-	Coho	12	0	1.116	0.109	3.56
				8	1	1.140	0.534	3.17
Aug. 30	Pachena	-	Rainbow	.7	0 .	0.976	0.119	3.52
Aug. 30	Pachena	-	Aleuticus	14	ALL	0.977	0.102	3.54
Aug. 30	Pachena	-	Asper	18.	ALL'	1.046	0.198	3.36
Aug. 31	Ritherdon	-	Cutthroat	12	0	0.935	0.379	3.22
		:		7	1 .	1:016	0.036	3.73
A				7	2	0.949	0.016	3.85
1978		- 1				21. 1		
	٠							
Mar. 13	Carnation	11	Coho	10	1 .	1.192	0.278	3.34
April 1	Carnation		Coho	12	1	0.967	0.051	3.69
April 2	Carnation	Fence	Coho	. 7	-	1.056	0.224	3.35
					2	1.067	0.009	4.04
April 11	Carnation	Fence	Coho	. 8	1	1.048	0.043	3.73
				5	2	1.016	660,100	1.59

Appendix table XV (cont'd)

Date	Location	Section	Species	n	age	. K	a (x10-5)	ь
April 13	Carnation	Fence	Coho	22	1	1.013	1.582	2.89
				-4	2	0.921	0.017	3.88
April 22	Carnation	Fence	Coho	15	1	1.001	0.999	3.00
				9	2	1.001	1.280	2.94
May 12	Carnation	Fence	Coho	16	1	0.997	3.821	2.69
				. 5	2	0.966	0.138	3.41
May 20	Carnation	Fence	Coho	- 6	1	0.941	3.429	2.70
	, , ,			4	2 .	0.945	44.670	2.16
Feb. 2	Carnation	II	Coho	10	182	1.162	11.830	2.46
June 8	Carnation	II	Coho	22	0	1.068	0.111	3.58
				3	1	1.164	3.904	2.72
June 7	Carnation	VI	Cono	15	0	1.034	0.836	3.05
Julio 4		• •		8	1	1.153	12.450	2.44
July 25	Carnation	II	Coho	11	0	1.065		3.25
oury 25				3	1	1.143	1.233	2:98
July 27	Carnation	VI	Coho	12	0	1.048	0.359	3.27
outy 27	Out that for	. • •	00110	6	1.	1.036	0.639	3.11
Oct. 5	Carnation	11	Coho	13	0 .	1.069	0.990	3.02
oct. s	Carriacion	••	00110	4	1	1.094	: 1,191	2.98
Sept. 26	Carnation	VI	Coho	14	0 .	1.022	0.605	3.13
3apt. 20	Oni im Cion	**	001.0	9	1.	1.123	0.786	3.08
June 8	Carnation	IIAVI	Rainbow	3	2	1.031	0.057	3.60
June B	Carnation	VI .	Rainbow	7	1	1.023	1.147	2.97
July 25	Carnation	IISVI	Rainbow .	6	0	0.996	0.032	3.88
July 27	Carnation	VI	Ratinbow	9		0.939	0.566	3.11
July 25	Carnation	IISVI	Rainbow	. 3	2	0.961	0.566	3.10
Sept. 26	Carnation		Rainbow	2	0	0.915	82160.100	0.26
Sept. 26	Carnation	IIBVI	Rainbow	6	1	0.950	2.244	2.81
June 8	Carnation	11	Cutthroat.	3	283	0.997	8.801	2.54
July 27	Carnation	VI	Cutthroat	3	0	0.977	1.049	2.98
July 25	Carnation	IIAVI	Cutthroat	. 6		0.978	0.003	4.26
July 25	Carnation	11	Cutthroat	: 4	283	0.956	0.887	3.01
Sept. 26	Carnation	VI	Cutthroat	. 7	0	0.966	0.423	3.20
3ap c. 20	,			. 7	1	0.941	0.621	3.09
				5	2	0.981	89.160	2.07
June 8	Carnation	11	Aleuticus	12	ALL	1.060	0.496	3.18
June 7	Carnation	VI	Aleuticus	5	ALL	1.133	0.415	3.21
July 25	Carnation	ii	Aleuticus	- 11	ALL	1.021	0.478	3.18
July 27	Carnation	VI	Aleuticus	- 6	ALL	1.101	0.181	3.40
Oct. 5	Carnation	ii	Aleuticus	. 13	ALL	1.004	0.171	3.42
Sept. 26	Carnation	VI	Aleuticus	14	ALL	1.147	0.428	3.21
June 8	Carnation	11	Asper	8	ALL	0.993	0.583	3.12
July 25	Carnation	11	Asper	. 7	ALL	1.120	0.029	3.80
Oct. 5	Carnation	ii	Asper	4	ALL	1.034	0.330	3.25
	Carnation	ix	Cutthroat	1.7	1	1.331	4.118	2.72
June 6	Carria C10n	**	out till out	19	2	1.309	3.971	2.75

Date	Location	Section	Species	'n	age	K	a (x10-5)	p.
Sept. 19	Carnation	IX	Cutthroat	14	0	0.964	0.382	3.24
Sept. 19	Carnation	40 .	Cuttinoat	12	1	0.965	0.177	3.37
		•		-4	2	0.976	34.160	2.25
June 6	Carnation	Toth C	Cutthroat	31	1	1.331	2.379	2.85
Julie 6	carnacion	11 10 0	CG C CIII GG C	16		1.364	1.566	2.96
Oct. 6	Carnation	Trib C	Cutthroat	.6		0.941	1.832	2.83
JCt. 0	oai na cron		00001111 0000	20		0.958		3.31
				. 4	9	1.051	0.023	3.77
Aug. 30	Useless		Coho	13	õ	1.069	1.684	2.89
Aug. 30	Useless	<u>-</u> .	Cutthroat	4		0.891	0.248	3.34
aug. oo	0301000	10, 11	Cut tim but	. 7		0.909		2.71
					2	0.927	4.218	2.68
Aug. 30	Useless	/w .	Aleuticus		ALL	1.009	0.114	3.50
Oct: 6	Frederick	-	Coho :	18	-	1.064	0.402	3.22
Oct. 6	Frederick		Aleuticus	11	ALL	0.906	0.378	3.21
Oct. 6	Frederick		Rainbow	3		1.043	1.309	2.94
Sept. 19	Pachena	4	Coho	22	-	1.031	0.675	3.10
sept. 15	raciieila		00110	- 3	1	1.045	0.418	3.19
Sept. 19	Pachena	-	Rainbow	13	-	0.953	0.780	3.05
sept. 15	,		No. I Tabou	. 2		1.074	0.000	5.42
Sept. 19	Pachena		Aleuticus		ALL	1.017		3.16
Sept. 19		_	Asper			1.120		3.46
Aug. 30	Ritherdon	-	Cutthroat			1.000		2.56
aug. oc				12		0.961		2.92
						0.994		3.59
Dec. 20	Carnation	11	Coho			1.134	0.001	4.79
1979							3.44	
							* * * *	
Mar. 29	Carnation	Fence	Coho	11	1 .	0.959	1.512	2.89
Apr11 4	Carnation		Coho	11	.1	0.955	45.540	2.11
April 17	Carnation	Fence	Coho	22		1.010	2.584	2.78
April 23	Carnation		Coho	6	1	0.984	5.202	2.61
				5	2	1.036	0.062	3.61
May 4	Carnation	Fence	Coho	7.	1 .	1.036	1.221	2.96
				4	2	1.001	222.700	1.83
May 16	Carnation	Fence	Coho	12	1.	0.963	1.511	2.89
		*:		8	.2	0.958	44.290	2.17
May 26	Carnation	Fence	Coho	10	1.	0.941	1.106	2.96
April 24	Carnation	400m	Coho	11	0.	0.881	0.018	4.05
1				8	182	1.074	1.931	2.86
Apr 11 24	Carnation	400m	Aleuticus	6	ALL	0.974	5.263	2.60
April 24	Carnation	400m	Asper	2	ALL	0.982	20790.000	0.71
June 9	Carnation .	400m	Coho	16	0	1.052	0.204	3.41
٠				4	1	1.145	16.090	2.38
June 9	Carnation	400m	Aleuticus -	6	ALL	0.961	0.063	3.64
June 9	Carnation	400m	Asper	6	ALL	1.00B	0.015	3.95
July 26	Carnation	400m	Coho	14	0	1.088	0.392	3.25
				5	1	1.089	0.534	3.16

Appendix table XV (cont'd)

Date	•	Location	Section	Species				a (x10-5)	
July 2	6	Carnation	400m	Aleuticus	8	ALL	1.043	0.978	3.01
July 2	6	Carnation		Asper .	- 4		0.981		3.75
Sept.		Carnation		Coho	11	0	1.068	1.784	2.87
					2	1 .			6.92
Sept.	25	Carnation	400m	Aleuticus		ALL	1.043	0.143	3.47
		Carnation		Asper	.3	ALL	0.984	1.132	2.97
June 4		Carnation		Coho	14		0.996	0.507	3.18
				00110	7	_	1.152	0.063	3.67
June 1	2	Carnation		Coho	14	ò	1.047	0.220	3.40
	_	04, 114, 101,		00110	9	1	1.167	5.245	2.65
disty 2	4 .	Carnation	TT	Coho	13	-	1.054	0.778	
oury 2	-	Car riac ron	*.*	CONO	5	1	1.037	1.086	2.99
July 2	6	Carnation	WY	Coho	10				
outy 2		Carnation	**	CONO	4	1	1.099	0.660	3.12
Sept.	20	Carnation	**	Coho	13		1.093	47.410	
Sept.	20	Carriation		Cono	7	_	1.078		2.98
Cont	40	Carnation	WY	Coho	-	-	1.118	2.212	2.84
Sept.	10	Carnation	A1 .	Cono	11		1.051	1.080	2.99
June 1	2	Connection		Dadabase	4		1.082	0.724	3.09
June 4		Carnation		Rainbow	9		1.032	1.936	2.85
		Carnation		Rainbow	5		0.975	0.004	4.15
July 2		Carnation		Rainbow	2		1.003	1.732	2.88
June 4		Carnation		Cutthroat			0.995	1.306	2.94
July 2		Carnation		Cutthroat	2	182	1.086	4.501	2.69
June 4		Carnation	II .	Aleuticus			1.068	0.386	3.24
June 1		Carnation		Aleuticus	12		1.126	0.347	3.26
		Carnation	11	Aleuticus			0.979	0.185	3.39
July 2				Aleuticus	5	ALL	1.153	4.151	2.70
Sept.		Carnation		Aleuticus			1.000	0.139	3.45
Sept.		Carnation		Aleuticus	8	ALL	1.065	1.408	2.93
June 4			11	Asper		ALL		0.009	4.07
July 2		Carnation		Asper		ALL	1.044	0.444	3.19
Sept.		Carnation	II	Asper	6	ALL	1.034	0.058	3.63
June 1	4	Carnation	IX	. Cutthroat		1	1.016	2.138	2.82
1.91					11	2	0.945		3.12
·	_					3.	0.917	1145.000	1.53
Oct. 1	0	Carnation	IX .	Cutthroat	10	0	0.904	0.525	3.14
					11	1 :	0.000	0.829	3.02
					6	2	Q.887	5.211	2.63
June 1	1	Carnation	Trib'C	Cutthroat	11		1.086	3.742	2.71
					- 5	2	1.057	0.419	3.19
Sept:	17	Carnation	Trib C	Cutthroat	3		1.048	2.486	2.78
1.					8		1.063	2.557	2.80
		2 4			4		1:069	6.662	2.61
Aug. 1		Useless		Coho	15	0	1.091	0.933	3.04
Aug. 10	6	Useless	-	Cutthroat	7	0	0.938	0.352	3.26
			٠		3		1.047	43.470	2.17
Aug: 1		Useless	- 1.	Asper	2	ALL .	0.951	0.421	3.18
Aug. 10	6	Useless		Aleuticus	15	ALL	0.982	0.789	3.06

Date	Location	Section	Species	n	age	K	a (×10-5)	b
Aug. 14	Frederick		Coho	12	0	1.141	0.978	3.03
Aug. 14	Frederick	-	Rainbow	6	0		1.265	2.91
Aug. 14	Frederick	-	Aleuticus	7	ALL	0.943	0.312	3.31
Aug. 14	Frederick	-	Asper	13	ALL.		0.442	3.21
Aug. 15	Pachena	-	Coho	17	0	1.064	0.624	3.13
			1,5	8	1	1.133	0.459	3.20
Aug. 15	Pachena	-	Rainbow	10	0	0.995	0.994	3.00
					. 1	1.060	0.000	6.51
Aug. 15	Pachena	-	Asper	14	ALL	1.128	0.052	3.66
Aug. 15	Pachena	-	Aleuticus	11		1.040	0.416	3.21
Aug. 13	Ritherdon		Cutthroat	. 8	0	0.945	0.464	3.18
				4	1 .	0.940	13.480	2.43
212 23	1			6	2	0.959	4.743	2.67
				. 2	3	0.939	0.886	3.01
	*** 4.6							
1980				~				
: 1								
April 3	Carnation	Fence	Chum	28	0	0.637	185.200	1.48
April 3	Carnation	Fence	Coho	36	0	0.749	296.900	1.35
April 22	Carnation	Fence	Coho -	12	0	0.889	0.075	3.67
Mar. 28	Carnation	Fence	Coho.	17.	1 .	1.003	1.439	2.91
*				. 5	2	1.022	1.730	2.88
April 3	Carnation	Fence	Coho	18	1	0.995	0.627	3.10
April 4	Carnat i'on	Fence	Coho	4	2	1.001	1.651	2.88
April 14	Carnation	Fence	Coho	16	1 .	1.034	1.671	2.89
				4.	2	1.037	3.554	2.73
May 9	Carnation	Fence	Coho	16	5	0.971	0.913	3.01
4 Ba		51	200	10	2	0.964	60.310	2.11
May 15	Carnation	Fence	Coho.	18	1 .	0.973	1.391	2.92
duly 22	Carnation	11	Coho	10		1.104	1.079	3.00
				6	1	1.102	0.102	3.54
July 23	Carnation	VI .	Coho	15		1.024	2.410	2.78
				9		1.103	97.320	1.97
Sept. 16	Carnation	11	Coho '	17	0	1.066	1.006	3.01
				. 9	1	1.153	0.286	3.32
Sept. 18	Carnation	VI	Coho	28	0	1.042	0.561	3.15
				7	1	1.128	1.151	2.99
July 23	Carnation		Cutthroat	4	0	0.907		4.98
July 22	Carnation		Cutthroat	. 8	1	0.941	0.005	4.18
	Carnation	VI	Cutthroat	9	0	0.904	1.002	2.97
	Carnation		Cutthroat	5		0.889	8.259	2.52
Sept. 16	Carnation	IIAVI	Cutthroat	5	283	1.006	0.258	3.27
Sept. 24	Carnation	IX	Cutthroat	18	0	0.922	0.301	3.29
	44 2		* *	14		0.991	0.561	3.12
				. 6	2	0.974	1.130	2.96
Sept. 15	Carnation	Trib C	Cutthroat	10		1.036	1.640	2.88
				4	1.	1.071	324.100	1.77
				3	2	1.047	0.006	4.07

Date	Location	Section	Species	n	age	K	a (×10-5)	b.
July 23	Carnation	VI	Rainbow	3	0	0.955	0.000	5.06
July 23	Carnation	VISVIII	Rainbow	3	1-3	1.060	0.998	3.00
Sept. 18	Carnation	VI .	Rainbow	9	0	1.023	0.788	3.06
Sept. 16	Carnation	IIIVAIII	Rainbow	.5	1.2	0.981	3.303	2.75
July 22	Carnation	II	Aleuticus	10	ALL	0.959	0.852	3.03
July 23	Carnation	ILIVEIN	Aleuticus	25	ALL	1.112	4.264	2.70
Sept. 16	Carnation	II	Aleuticus	12	ALL	1.046	1.327	2.94
Sept. 18	Carnation	VI	Aleuticus	12	ALL	1.240	0.350	3.28
July 22	Carnation	11.	Asper	10	ALL	1.043	0.151	3-43
Sept. 16	Carnation	II	Asper	9	ALL	1.082	1.291	2:96
lug. 20	Pachena		Coho	18	0	1.097	1.240	2.96
				10	1 .	1.114	1.760	2.89
lug. 20	Pachena	-	Rainbow	10	0 .	1.045	7.504	2.48
				5	1	1.004	1.050	2.99
Aug. 20	Pachena	-	Aleuticus	17	ALL	1.033	1.318	2.95
lug. 20	Pachena	-	Asper	30	ALL	1.090	0.037	3.72
Aug. 19	Useless	-	Coho	14	0	1.107	0.906	3.04
lug. 19	Useless		Cutthroat	4	0	0.942	0.595	3.12
		*		10	1	0.999	1.632	2.88
44				2	2	1.012		
lug. 19	Useless	-	Aleuticus	9	ALL	1.057	0.450	3.20
lug. 19	Useless	• '	Asper	6	ALL	1.139	0.066	3.65
lug. 21	Ritherdon		Cutthroat	27	o	0.987	0.630	3, 11
				8	1	0.985	2.926	2.76
				2	283	0.968	3.925	2.73